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PERSONAL.

Mr. Arthur Meyer has been elected Vice-President of the St. Lawrence & Adirondack Ry.

Mr. Walter H. Hofheins has been appointed Receiver of the Mobile Transit Co., of Buffalo, N. Y.

Mr. George Butler has been appointed General Superintendent of Irrigation on Indian Lands.

Mr. B. C. Bratt has been elected City Engineer of Portsmouth, O., to succeed Mr. R. A. Bryan.

Mr. W. A. McGonagle has been appointed Assistant Chief Engineer of the Duluth & Iron Range R. R.

Mr. George W. Houck, of Worcester, Mass., has been appointed Receiver of the Buffalo, Hamburg & Aufora R. R.

Mr. George B. Reeve has been elected President of the Atlantic & St. Lawrence Ry., and Mr. George P. Westcott, of Portland, Me., Vice-President.

Mr. Erasmus D. Locke has been elected Chief Engineer of the city water-works pumping plant of Toledo, O., succeeding Dr. Caddy Markley, resigned.

Mr. Walter H. Hill, M. Am. Soc. C. E., of Grangeville, Idaho, will be Chief Engineer of the proposed 80-mile electric road from Grangeville to Lewiston, Idaho.

Mr. R. P. Collins, Roadmaster of the New York, New Haven & Hartford R. R. at Readville, Mass., has resigned and is succeeded by Mr. Harry E. Astley, his first assistant.

Mr. Jules T. Jollivet, for several years Chief Draftsman of the Board of Highway Supervisors of Philadelphia, Pa., has resigned to become Assistant Engineer of the Keystone Telephone Co.

Mr. W. F. Miller, formerly Engineer of the filtration plant at Pittsburg, Pa., has been appointed by the County Commissioners as Assistant to Mr. F. W. Patterson, County Road Engineer.

Mr. John L. Walker, Chief Engineer of the central pumping station of the water-works of New Orleans, La., has resigned and is succeeded by Mr. William P. Carter, Electrician of the General Electric Co.

Mr. R. Angst, Chief Engineer of the Duluth & Iron Range R. R., has been given charge of all construction and maintenance of all tracks, buildings, bridges and other structures, the property of the company.

Mr. George H. Gibson, Assoc. M. Am. Inst. E. E., Assistant Editor of Engineering News, has resigned to accept a position in the Westinghouse Companies' Publication Department, at East Pittsburg, Pa.

Mr. F. W. Dyson, Chief Astronomer of the Greenwich Observatory, has arrived in San Francisco, Cal., on his homeward journey from Sumatra, where he observed the total eclipse of the sun. He has visited the Lick Observatory and intends to inspect other American observatories before he returns to England.

Messrs. Constantine Barsoff, Superintendent of the Water Supply of Moscow, Russia; Vogelsoff Waldemir, Chief Engineer of the Moscow Water Co., and Paul Kilduchevsky, of St. Petersburg, are in this country on a tour of inspection of water plants before completing plans for the contemplated additions to the water-works of Moscow. For the past few days the gentlemen have been in Louisville, Ky., examinging the plant of the Louisville Water Co.

Mr. Charles Le Blanc, Electrical Engineer and Contractor, of Paris, France, has recently resigned his position of Chief Engineer of the Compagnie General de Traction de Paris, and is now in this country. Mr. Le Blanc was formerly connected with the Sprague Electric Ry. & Motor Co. He is at present in the West, but will probably return to New York on or about Aug. 28, when he can be found at the Hotel Imperial. He will sail for France on Aug. 31.

Mr. Charles M. Hays, President of the Southern Pacific Co., has resigned. Mr. Hays was born in 1856, and entered railway service in 1873 in the Passenger Department of the Atlantic & Pacific road at St. Louis. He obtained his first important position in 1887 as General Manager of the Wabash Western Ry., and in 1889 was made General Manager of the Wabash System. In 1894 he was elected Vice-President of the same road. Two years later he was made General Manager of the Grand Trunk Ry. System, which office he held until December, 1900, and on Jan. 1, 1901, he was elected President of the Southern Pacific Co.

OBITUARY

Mr. Henry C. Gaskill, a contractor and builder of Dunellen, N. J., died at his home on Aug. 14 of typhoid fever.

Baron Adolf Eric Nordenskiold, the Arctic explorer and naturalist, died on Aug. 13 in Stockholm, Sweden, aged 69 years. He began his Arctice explorations in 1858, and was the first explorer to successfully make the journey through the Northeast Passage.

Mr. A. W. Graham, First Vice-President of the Louisville & Nashville R. R., died at Petoskey, Mich., on Aug. 18. Mr. Graham was a native of Scotland, and was promoted from Traffic Manager to First Vice-President on April 1 of this year.

Mr. John London Cowan, Civil Engineer, and formerly President of the Opelika & Auburn R. R., died in Montgomery, Ala., on Aug. 4. Mr. Cowan built many important railways in this country and Canada, and was Consulting Engineer for others.

Mr. William Franklin Coston, of West New Brighton, S. I., the maker of the Coston signals, died in the S. R. Smith Infirmary, at New Brighton, on Aug. 17. Mr. Coston was 56 years of age. He graduated from Georgetown University, and afterward studied abroad. He was the son of Benjamin Franklin Coston, who invented the signal that bore his name. The son perfected the father's invention.

ENGINEERING SOCIETIES.

COMING MEETINGS.

LEAGUE OF AMERICAN MUNICIPALITIES.
Aug. 21 to 24. Annual meeting at Jamestown, N. Y. Secy., John MacVicar, Des Moines, Ia.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
Aug. 24 to 31. Annual meeting at Denver, Colo. Secy., L. O. Howard, Cosmos Club, Washington, D. C.

INTERNATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 2 to 4. Annual meeting at Niagara Falls, N. Y. Secy., Frank P. Foster, Corning, N. Y.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.
Sept. 10. Annual meeting at Buffalo, N. Y. Secy., Wilson S. Howell, P. O. Box 114, Newark, N. J.

INTERNATIONAL GOOD ROADS CONGRESS.
Sept. 16 to 21. At Buffalo, N. Y. Secy., R. W. Richardson, 928-29 Marquette Bldg., Chicago, Ill.

EASTERN MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 17 and 18. Annual meeting at Rochester, N. Y. Secy., F. C. Stowell, Ware, Mass.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 1 to 4. Annual meeting at Niagara Falls, N. Y. Secy., D. L. Fulton, Allegheny, Pa.

RAILWAY SIGNALING CLUB.
Oct. 8 and 9. Annual meeting at Buffalo, N. Y. Secy., C. O. Tilton, C., M. & St. P. Ry., W. Milwaukee, Wis.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 9 and 11. Annual meeting in New York city.

ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION
Oct. 15. Annual meeting at Washington, D. C. Secy., J. B. Dickson, C. & N. W. Ry., Sterling, Ill.

AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.
Oct. 16. Annual meeting at Buffalo, N. Y. Secy., C. A. Hammond, Mount Vernon, N. Y.

CONNECTICUT SOCIETY OF CIVIL ENGINEERS.—The midsummer meeting of the society will be held on Aug. 27 at Norwich and New London. Aside from a short business meeting the time will be occupied in visiting the plant of the Continental Compressed Air Power Co. at Taftville, near Norwich; the plant of the Eastern Shipbuilding Co., at New London, and Fort G. H. Wright, on Fisher's Island. Mr. Geo. K. Crandall, New London, Conn., is secretary of the association.

EASTERN MAINTENANCE OF WAY ASSOCIATION.—The Nineteenth Annual Convention of the Association will be held at the Whitcomb House, Rochester, N. Y., September 17 and 18, 1901. The convention will open at 9.30 a. m., Sept. 17. After the regular routine business of the Association, the following questions and papers will be taken up for discussion: Efficiency and economy considered, is track best put in surface and final finish as the new ties are put in, or is it best to simply bar tamp the new ties as put in and go all over track again for final surface and finishing? The best method of training sectionmen for foremen, R. P. Collins, N. Y., N. H. & H. R. R., Readville, Mass.; What increase in the life of cross-ties can be effected by the use of better ballast, by thorough draining of roadbed, by use of tie plates and tie plugs, by preservation of their timber through different processes, by removal of bark and allowing the ties to season before using? Some observations on The methods and results of the prize system in Maintenance of Way work, E. A. Haskell, B. & A. R. R., Springfield; Can life of the ends of the heavier rail sections be prolonged and breaking of bolts lessened by increasing the size of bolts? What should be the relative diameter of hole in rail ends and fastenings to bolts used? The use of floating gangs, J. B. Stouder, C. & N. W. R. R., Clinton, Ia.; The best method of maintaining public and private crossings at grade. Review of previous year's discussions. Committees appointed by the Executive Committee will submit reports on these questions. Mr. W. L. Derr, Div. Supt., Erie Railroad, will deliver a lecture on the evening of Sept. 17. The Whitcomb, the convention headquarters, has given a special rate to members attending the convention of $2 and $2.50 a day, American plan.

F. C. Stowell, Secy.

NEW PUBLICATIONS.

ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS.—Proceedings of the annual meeting held at Bloomington, Ill., January, 1901. Urbana, Ill.: The Society. Paper; 6 × 9 ins.; pp. 232; illustrated; 50 cts.

This report contains a number of papers on roads, pavements, drainage, railways and other engineering topics.

IOWA ENGINEERING SOCIETY.—Proceedings of the annual meeting held at Davenport, Ia., January, 1901. Paper; 6 × 9 ins.; pp. 114; illustrated; 50 cts.

The address of Prof. Anson Marston, President of the Association, contains an interesting review of "Engineering in Iowa," including a summary of attempts thus far made at sewage purification. There are several papers on water-works and allied subjects, and one on the iron ore mines at Waukon, Ia.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½x6 ins., 6x9 ins., and 9x12 ins.)

GAS-ENGINE PUMPING OUTFITS.—The Otto Gas Engine Works, Chicago, Ill. Paper; 7 × 10 ins.; pp. 72; illustrated.

This is a very complete descriptive catalogue of gas-engine pumping outfits for locomotive water supply, including pumps, standpipes, tanks and other apparatus.

ROPE AND CHAIN COUPLINGS.—Frazier Coupling Mfg. Co., Peoria, Ill., and 32 La Salle St., Chicago. Paper; 4¼ × 7½ ins.; pp. 8; illustrated.

This coupling, in different forms, is used for hemp and wire rope and chains for hauling, power transmission, hoisting and various other purposes. The company also makes a buggy-shaft coupling.

WELL-SINKING MACHINERY AND SUPPLIES.—The American Well Works, Aurora, Ill. Paper; 6 × 9 ins.; pp. 176; illustrated.

This catalogue describes all sorts of well-sinking machinery, deep-well pumps, air-lifts, gasoline, gas and oil engines, boilers, and a great variety of supplies. It includes a view of the first flowing oil well at Beaumont, Tex., which was sunk by a Chapman's rotary oil-well machine.

PAINT MACHINERY.—C. O. Bartlett & Co., Cleveland, O. Paper; 6 × 9 ins.; pp. 48; illustrated.

This catalogue, No. 3, deals particularly with the machinery used in manufacturing paint, and illustrates, prices, and gives the dimensions of many varieties of paint mixers, coolers, mills, crushers, etc. The same firm also manufactures mills for flour and cement, elevating and conveying machinery, mining machinery, stone crushers, etc.

PIPE-CLEANING APPARATUS.—Otto Mierisch & Co., Friedrichstrasse, Dresden, Saxony. Paper; 9 × 11 ins.; pp. 4; illustrated.

The device described in this circular is similar in principle to the pipe scrapers used in England and Canada for many years past to remove incrustation from water mains, and also resembles in some respects the "go-devils" used in our American oil-pipe lines. This particular cleaner, the circular states, was invented by Mr. F. W. Nowotny, Foreman Engineer to the Deutsche Solvay-Werke, Bernberg, Saxony, and has been patented in America and many other countries. It has been used to clean some 20 miles of pipes at the works just named, and is recommended for particularly hard mineral incrustations in all sorts of pipes, including heat-economizer tubes. It is also designed for cleaning large and small water mains.

RAILWAY SUPPLIES.—Fairbanks, Morse & Co., Franklin and Monroe Sts., Chicago. Paper; 6 × 9 ins.; pp. 192; illustrated.

This is a very convenient and well printed price-list and catalogue of a variety of railway appliances and supplies, including track scales, water tanks and water columns, steam and gasoline pumps, coaling station equipment, handcars and motor cars for railway work, and a general line of dump cars, jacks, wire rope, belting, track tools, etc. Among the specialties are the Buckeye light for shops, yards, wrecking operations, etc., and the Torrey ballast loading machine. The company's gas engines are shown as applied to pumps, hoists, turntables, and air compressors for portable riveters.

WATER-TUBE MARINE BOILERS.—The Babcock & Wilcox Co., New York. Cloth; 7½ × 10½ ins.; pp. 176; illustrated.

This handsome publication, entitled "Marine Steam," is devoted to the well-known Babcock & Wilcox boiler as applied to steamers, and there will be few readers who will not be surprised at the number and variety of vessels equipped with these boilers. They include tugs and small coasting steamers, large ocean and lake freight steamers, a large number of warships of various classes and such miscellaneous craft as dredges and fireboats. The book is written in an interesting style, describing the construction of the boiler, its history, and giving numerous quotations and reprints of articles describing its use on different vessels. Detailed accounts and records are also given of numerous official tests. There

is also considerable technical matter in chapters on corrosion, heating feed water, dry steam, evaporation, fuel, etc. The book is well printed, and is profusely illustrated with engravings of boilers and with excellent halftone engravings of a great number of steamers fitted with the Babcock & Wilcox boilers.

POWER AND TRANSMISSION PLANT.—Dodge Mfg. Co., Mishawaka, Ind. Paper; 6¾ × 10¼ ins.; pp. 64; illustrated.

This is devoted mainly to the rope transmission, clutch wheels and wooden rimmed flywheels which are among the company's specialties, with descriptions of plants in which they are used. There are also articles on "Power and Transmission in the Philippines," "Factory Illumination" and "Industrial Betterments." A separate 8-page pamphlet gives an account of the company's history and products.

WATER FILTER SYSTEM.—Ira Hestren Jewell, Marquette Building, Chicago, Ill. Broadside; 27 × 22 ins.; illustrated.

This circular describes a system of mechanical filtration which includes a number of special devices, some or all of which have been patented by Mr. Jewell in the last four years. Among these features may be mentioned an electric traveling crane, suspended platform and centrifugal pump, so arranged as to permit the cleaning of the surface of any of the filters or the removal of mud from the settling tanks beneath the filters. By this means the settling tanks may be operated continuously without wasting the coagulated water within it. There is also a sand washer on this same platform. Another feature of the system is the accessibility of the filter screens from below. This is effected by means of a slide valve above the screen, which permits the latter to be removed from the settling basin. Other devices connected with the system are an automatic regulator to control the rate of filtration and a coagulant feeding mechanism, controlled by governor balls. The various gates are operated by hydraulic or electric power from a switchboard.

MULTIPLE FILTERS.—Rheinstrom Bros., Cincinnati, O. Paper; 6 × 9 ins.; pp., not given; illustrated.

Judging from the testimonials, this filter is used chiefly for the clarification of wine, brandy, whisky and the like, but the catalogue before us states that it is applicable to all liquids, regardless of the degree of fluidity which they possess. Glycerine, syrup and oil are mentioned as heavy liquids which may be treated by the filter. The filtering medium is paper pulp, cellulose or asbestos, the latter being used for water. The pulp is supported on solid annular plates, with annular and radial grooves in their upper surfaces for collecting the filtrate. A piece of flannel cloth is placed between the pulp and the plate to retain particles of the former. The liquid to be filtered passes to the top of several filter units through a series of holes which open into annular channels, one around the inner side of each plate. The liquid passes through the pulp and flannel to the grooves in the top of each plate, already mentioned, and thence through holes beneath the annular channel to a central vertical package leading to the discharge pipe. The nest of plates is held together by means of a screw-plate press. When the filter gets dirty it is taken apart, the pulp is removed and washed and the flannel cloths are washed in place, by pouring water over them. The filters operate under a head of 5 to 10 ft.

GENERAL ELECTRIC BULLETINS.—General Electric Co., Schenectady, N. Y. Paper; 8 × 10½ ins.; illustrated.

The following bulletins have recently been issued by the General Electric Co.:

No. 4229, describing large oil transformers;

No. 4233, rotary converters for railway systems;

No. 4238, railway motor controllers;

No. 4239, polyphase machinery;

No. 4241, searchlight projectors;

No. 4242, direct-driven continuous current generators for lighting and power;

No. 4243, induction motors;

No. 4245, switch system of remote control;

No. 4246, power-circuit enclosed arc lamps for 220 or 550 volts.

No. 4247, sewing-machine motors;

No. 4248, small alternating current motors, these are single-phase induction motors and are fitted with condenser compensators;

No. 4250, small continuous current stationary motors;

No. 4251, belt-driven railway generators;

No. 4252, small plant switchboards;

No. 4253, slow and moderate speed belt-driven generators;

No. 4254, the series alternating arc-light system.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
Aug. 22.	Road (25 miles),	Houston, Tex.	Aug. 1
	Advertised, Eng. News, Aug. 1 to 15.		
Aug. 23.	Water-works,	Lonaconing, Md.	Aug. 8
	Advertised, Eng. News, Aug. 1 to 15.		
Aug. 23.	Paving,	Pittsburg, Pa.	Aug. 15
Aug. 23.	Macadamizing,	Paterson, N. J.	Aug. 15
Aug. 23.	Macadamizing,	Scott, Pa.	Aug. 15
Aug. 23.	Bridge,	Seattle, Wash.	Aug. 15
Aug. 23.	Paving,	Cedar Rapids, Ia.	Aug. 15
Aug. 23.	Sewers,	Cedar Rapids, Ia.	Aug. 15
Aug. 24.	Sewers,	Oshkosh, Wis.	Aug. 15
Aug. 24.	Sewers, etc.,	Youngstown, O.	Aug. 15
Aug. 25.	Sewer,	Oneida, N. Y.	Aug. 15
Aug. 26.	Sidewalks,	Vailsburgh, N. J.	Aug. 15
	Advertised, Eng. News, Aug. 15 and 22.		
Aug. 26.	Paving,	Atlantic City, N. J.	Aug. 15
	Advertised, Engineering News, Aug. 15.		
Aug. 26.	Concrete sidewalks,	Hensall, Ont.	Aug. 15
Aug. 26.	Sewers,	Laurel, Del.	Aug. 15
	Advertised, Engineering News, Aug. 15.		
Aug. 26.	Placing stone,	Rockland Harbor, Me.	Aug. 1
	Advertised, Eng. News, Aug. 1 to 22.		
Aug. 26.	Stone work,	Delaware River, Pa.	Aug. 1
	Advertised, Eng. News, Aug. 1 to 22.		
Aug. 26.	Steel bridge,	Alexandria, La.	Aug. 1
	Advertised, Eng. News, Aug. 1 to 15.		
Aug. 26.	Street improvements,	Vailsburgh, N. J.	Aug. 8
	Advertised, Eng. News, Aug. 8 and 15.		
Aug. 26.	Bridge substructure,	St. Clairsville, O.	Aug. 8
Aug. 26.	Paving,	Green Bay, Wis.	Aug. 8
Aug. 26.	School building,	Cleveland, O.	Aug. 8
Aug. 26.	Bridge,	Ypsilanti, Mich.	Aug. 22
	Advertised, Engineering News, Aug. 22.		
Aug. 26.	Storm sewers,	Atlantic City, N. J.	Aug. 22
	Advertised, Engineering News, Aug. 22.		
Aug. 26.	Coal handling plant,	Ward's Island, N. Y.	Aug. 22
Aug. 27.	Water pipe,	Quebec, Que.	Aug. 22
Aug. 27.	Machinery, etc.,	Philadelphia, Pa.	Aug. 1
Aug. 27.	Aqueduct,	Boston, Mass.	Aug. 1
	Advertised, Eng. News, Aug. 1 to 22.		
Aug. 27.	Bridge,	Binghamton, N. Y.	Aug. 15
	Advertised, Eng. News, Aug. 15 and 22.		
Aug. 27.	Wharf,	New Orleans, La.	Aug. 15
Aug. 27.	Sewers,	Hammond, Ind.	Aug. 15
Aug. 28.	Drainage,	Louisiana.	Aug. 8
	Advertised, Eng. News, Aug. 8 to 22.		
Aug. 28.	Sewers,	Elkhart, Ind.	Aug. 15
Aug. 28.	Sewers,	Bowling Green, O.	Aug. 15
Aug. 28.	Paving,	Des Moines, Ia.	Aug. 15
Aug. 28.	Water-works,	Pleasantville, N. Y.	Aug. 15
	Advertised, Engineering News, Aug. 15.		
Aug. 28.	Bridge,	New York, N. Y.	Aug. 22
Aug. 28.	Electric plant, etc.,	Kahola, Mo.	Aug. 22
Aug. 29.	Sewer system, etc.,	Stanley, Wis.	Aug. 22
Aug. 29.	Electric lights,	Newton Falls, O.	Aug. 22
Aug. 29.	Bridge,	Tullytown, Pa.	Aug. 15
Aug. 29.	Custom house,	Brunswick, Ga.	Aug. 1
Aug. 30.	County building,	Augusta, Ga.	Aug. 8
Aug. 30.	Sluice gates, iron work, etc.,	Minneapolis.	Aug. 8
Aug. 30.	School building,	New Haven, Conn.	Aug. 8
Aug. 30.	Store house,	Philadelphia, Pa.	Aug. 8
Aug. 30.	Sewers,	Keokuk, Ia.	Aug. 15
Aug. 30.	Road construction,	North Judson, Ind.	Aug. 15
Aug. 30.	Garbage crematory,	Salt Lake City, Utah.	Aug. 15
Aug. 31.	Paving, etc.,	Cleveland, O.	Aug. 15
Aug. 31.	Paving,	Huntington, L. I.	Aug. 15
	Advertised, Eng. News, Aug. 15 and 22.		
Aug. 31.	Tile drains, etc.,	Cerro Gordo, Ill.	Aug. 15
Aug. 31.	Electric lighting,	Indianapolis, Ind.	Aug. 15
Aug. 31.	Dredging,	Detroit, Mich.	Aug. 15
	Advertised, Eng. News, Aug. 15 to 29.		
Aug. 31.	Paving,	Youngstown, O.	Aug. 15
Aug. 31.	Bridge,	Washington, D. C.	Aug. 15
	Advertised, Engineering News, Aug. 15.		
Aug. 31.	Paving bonds,	Youngstown, O.	Aug. 8
Aug. 31.	Building,	Philadelphia, Pa., navy yard.	Aug. 8
Aug. 31.	Sewers,	Washington, D. C.	Aug. 8
	Advertised, Engineering News, Aug. 8.		
Aug. 31.	Road improvement,	Cincinnati, O.	Aug. 8
Aug. 31.	Buildings,	Algiers, La.	Aug. 1
Aug. 31.	Engines, dynamos, etc.,	Poughkeepsie, N. Y.	Aug. 22
	Advertised, Eng. News, Aug. 22 and 29.		
Aug. 31.	Repairing reservoir,	New Berlin, N. Y.	Aug. 22
	Advertised, Engineering News, Aug. 8.		
Aug. 31.	Shale block paving,	Ashtabula, O.	Aug. 22
	Advertised, Engineering News, Aug. 22.		
Aug. 31.	Macadam paving,	Carrollton, Ky.	Aug. 22
Sept. 1.	Bridge,	Glenwood, Man.	Aug. 15
Sept. 2.	Sewers,	Glenville, O.	Aug. 15
Sept. 2.	Bridges,	Mankato, Minn.	Aug. 1
Sept. 2.	College buildings,	Stillwater, Okla.	Aug. 1
Sept. 2.	Addition to library bldg.,	Stillwater, Okla.	Aug. 15
Sept. 2.	Sewage disposal plant,	Kings Park, N. Y.	Aug. 22
Sept. 2.	School,	Berkeley, Va.	Aug. 22
Sept. 2.	Iron bridge,	Leavenworth, Kan.	Aug. 22
Sept. 2.	Sewers,	Paris, Ky.	Aug. 22
Sept. 2.	Sewers,	Paw Paw, Mich.	Aug. 22
Sept. 3.	Plumbing,	Tacoma, Wash.	Aug. 22
Sept. 3.	Court house annex,	Macon, Ga.	Aug. 22
Sept. 3.	Macadam paving,	White Plains, N. Y.	Aug. 22
	Advertised, Eng. News, Aug. 22 and 29.		
Sept. 3.	Brick sewer,	Portland, Me.	Aug. 22
	Advertised, Eng. News, Aug. 22 and 29.		
Sept. 3.	Grain elevator,	Montreal, Que.	Aug. 15
	Advertised, Eng. Aug. 8 and 15.		
Sept. 3.	Mechanical equipment,	San Francisco, Cal.	July 18
Sept. 3.	Bridge,	White Sulphur Springs, Mont.	July 25
Sept. 3.	St. ry franchises,	Los Angeles, Cal.	Aug. 8
Sept. 3.	Canal work,	Chicago, Ill.	Aug. 8
	Advertised, Eng. News, Aug. 8 to 29.		
Sept. 3.	Paving,	Kenosha, Wis.	Aug. 15
Sept. 4.	St. ry power house,	Pittsburg, Pa.	Aug. 8
	Advertised, Engineering News, Aug. 8.		
Sept. 4.	Pumping station, filter, etc.,	Geneva, O.	Aug. 15
	Advertised, Eng. News, Aug. 15 and 22.		
Sept. 4.	Street sweeping, etc.,	Oakland, Cal.	Aug. 22
Sept. 5.	Brick paving,	Findlay, O.	Aug. 22
Sept. 5.	Brick paving,	Des Moines, Ia.	Aug. 22
Sept. 5.	County jail,	Riverside, Cal.	Aug. 15
Sept. 5.	Court house bonds,	Asheville, N. C.	Aug. 8
Sept. 6.	Sea wall,	Fortress Monroe, Va.	Aug. 15
Sept. 6.	Valves, etc.,	Cleveland, O.	Aug. 15
Sept. 6.	Storm sewers,	Glenville, O.	Aug. 22
Sept. 7.	Street improvement,	Washington.	Aug. 22
	Advertised, Engineering News, Aug. 22.		
Sept. 7.	School building,	Redding, Cal.	Aug. 15
Sept. 7.	Building,	New York navy yard.	Aug. 8
Sept. 8.	Bridge,	Weiser, Idaho.	Aug. 15
Sept. 9.	Light-houses,	Mobile, Ala.	Aug. 15
	Advertised, Eng. News, Aug. 15 and 22.		
Sept. 9.	Electrical equipments,	Washington, D.C.	Aug. 15
	Advertised, Eng. News, Aug. 15 to Sept. 5.		
Sept. 9.	Bridge,	Indianapolis, Ind.	Aug. 22
Sept. 9.	Electric plant,	Edinburgh, Scotland.	Aug. 22
Sept. 9.	Sewers,	Plainfield, N. J.	Aug. 22
	Advertised, Engineering News, Aug. 22.		
Sept. 10.	Garbage crematory,	Hamilton, O.	Aug. 22
Sept. 10.	Bridge superstructure,	Zanesville, O.	Aug. 22
Sept. 10.	Steel bridge,	Birmingham, Ala.	Aug. 22
Sept. 10.	Plans, etc. (w.-wks.),	Muskogee, Ind. T.	Aug. 8
Sept. 14.	Barracks,	Sheridan, Wyo.	Aug. 22
Sept. 16.	Dredging,	Savannah, Ga.	Aug. 22
	Advertised, Eng. News, Aug. 22 to Sept. 12.		
Sept. 17.	Repairing wharf,	Ft. Du Pont, Del.	Aug. 22
	Advertised, Eng. News, Aug. 22 to Sept. 12.		
Sept. 17.	Court house,	Cartersville, Ga.	Aug. 1
Sept. 19.	Electric plant,	Ft. Washington, Md.	Aug. 22
	Advertised, Eng. News, Aug. 22 to Sept. 12.		
Sept. 20.	Building,	West Point, N. Y.	Aug. 22
	Advertised, Eng. News, Aug. 22 and 29.		
Sept. 20.	Arc lighting,	El Paso, Tex.	Aug. 15
Sept. 21.	Generating plant (w.-wks.),	Washington.	Aug. 8
	Advertised, Engineering News, Aug. 8.		
Sept. 24.	Power house,	St. Paul, Minn.	Aug. 22
Sept. 25.	Sewerage system,	Havana, Cuba.	Aug. 27
	Advertised Eng. News, June 27 to Sept. 18.		
Sept. 25.	Paving,	Havana, Cuba.	Aug. 27
	Advertised Eng. News, June 27 to Sept. 18.		
Sept. 30.	Bridge superstructure,	Fredericton, N. B.	Aug. 22
	Advertised, Eng. News, Aug. 22 to Sept. 26.		
Oct. 1.	Water supply, etc.,	Burlington, Ia.	Aug. 27
	Advertised, Eng. News, June 27 and July 11.		
Oct. 1.	Bridge,	Copenhagen, Denmark.	Aug. 8
Oct. 1.	Rip-rap,	Galveston, Tex.	Aug. 8
	Advertised, Eng. News, Aug. 8 to Sept. 26.		
Oct. 5.	Water gates, etc.,	Washington, D. C.	Aug. 8
	Advertised, Engineering News, Aug. 8.		
Oct. 8.	Tunnel sewers,	London, Eng.	Aug. 22
Dec. 3.	Coaling plant,	Manila, P. I.	June 20
Dec. 4.	Self-propelling wagons, etc.,	London, Eng.	June 20
Jan. 10.	Harbor work,	Rosario, Argentine Republic.	Apr. 18
Feb. 28.	Bridge,	Sydney, N. S. W.	June 20
	Advertised, Eng. News, June 20 to July 11.		
No date.	Bridge,	Stanton, Va.	Aug. 15
"	Bridge,	Sackville, N. S.	Aug. 15
"	Sewage disposal plant,	Los Angeles, Cal.	Aug. 15
No date.	Survey,	North Salem, N. Y.	Aug. 22
	Advertised, Engineering News, Aug. 22.		

RAILWAYS.

ALABAMA, MISSISSIPPI VALLEY & GULF.—W. Cutrer, Treas., Clarksdale, Miss., writes that a committee has been appointed to secure the remainder of the construction capital. The surveys have been completed and two-thirds of the rights of way secured. This line will be 80 miles long. L.D. Jennings, Pres., Water Valley, Miss.; H. P. Farrar, Ch. Engr., Jackson, Tenn.

ARKANSAS & CHOCTAW.—Bids are wanted by the Choctaw Construction Co., 915 Security Bldg., St. Louis, Mo., until Aug. 26 for the grading, masonry and bridging from Arkinda, Ark., through the southern portion of the Indian Territory, via Goodland, Durant, Ardmore and Sugden, to Wichita Falls, Tex., or for sections thereof 10 to 50 miles in length. Bids will also be received for about 900,000 cross ties to be used in the work. John Scullin, Pres.; F. W. Valliant, Ch. Engr.

BANGOR & AROOSTOCK.—The stockholders of this company have voted to issue $20,000,000 in bonds, of which $3,000,000 will be devoted to improving the existing property and $4,500,000 for extensions of the system.

BIRMINGHAM & VICKSBURG.—A complete survey, with maps, profiles and estimates, has been finished by the company's engineers to the Alabama state line from Vicksburg, Miss., and are now proceeding rapidly to Tuscaloosa, Ala. It is expected that a complete survey will be finished within the next three months. The construction of 100 miles of the road from Birmingham, Ala., to the Mississippi state line will probably be started first. This road will run through entirely new country, opening up rich agricultural, timber, coal and mineral resources for a distance of about 263 miles. The committee appointed to interest the business men of Birmingham and Tuscaloosa have reported good success. B. L. Roberts and W. L. Dinkins, of Canton, Miss., and J. C. Searles, of Vicksburg, Miss., are interested.

CANADIAN PACIFIC.—A. C. Dennis, D. E., 208 Main St., Winnipeg, Man., writes us that the grading on the Wellwood, Man., extension is nearing completion, and that a contract will be let this week for grading nine miles of road on the Snowflake extension. Grading on the Waskada extension is about half finished. Surveys have been started on the Corman extension westward toward Pelican Lake, Man., about 100 miles. The Osborne extension has been surveyed for a distance of 25 miles. P. A. Peterson, Ch. Engr., Montreal, Que.

CARTHAGE.—Chas. H. Scott, Ch. Engr., Warrenton, N. C., writes us that nothing definite is known of the proposed extension of this line to Greensboro, N. C. W. C. Petty, Lessee and Mgr., Carthage, N. C.

CENTRAL OF ALABAMA.—John Carlisle, of Cincinnati, O., writes us that no progress has yet been made towards the construction of this road, but it is probable that particulars can be secured in September.

CHEROKEE & RED RIVER.—Application for a charter for this road has been made in Kansas. The company is capitalized at $200,000, and will build a road from Joplin, Mo., to Galena, Kan. Dwight W. Tuttle, of New Haven, Conn., is interested.

CHICAGO & CALUMET.—Incorporation papers have been filed by this company in Illinois, capitalized at $100,000, for the purpose of building steam switches from the First Ward in Chicago to South Chicago, Lake, Hyde Park, Kensington, Pullman, Hegewisch, Colehour, Whiting and Hammond. The road will be constructed as a connecting link between the various roads touching those points. It is asserted that the construction will be started at once. The incorporators are D. La Fal Markle, Associate Mgr. Illinois Car & Equipment Co.; D. L. Chestnut, Chicago, and Alfred E. McCordie, Winnetka, Ill.

CHICAGO, MILWAUKEE & ST. PAUL.—Preparations are reported being made for the extension of the company's lines into Montana. Surveys have been made from Evarts, S. Dak., through Wyoming and southeastern Montana, the survey being completed to a point on the Yellowstone River. It is expected that the building will be started at once. D. J. Whittemore, Ch. Engr., Chicago.

CHIPPEWA VALLEY & NORTHWESTERN.—It has been decided by this company, according to reports, to build from Rice Lake to Cumberland, on the Omaha line, a distance of 20 miles. The company is now building a line from Rice Lake, Wis., to Birch Lake.

COPPER RANGE.—Surveyors are laying out a route for the extension to Calumet, Mich., to be built next summer. Two routes are under construction, but it is understood that President Paine favors the one parallel with the Mineral Range Road. C. W. Sanders, Ch. Engr., Houghton, Mich.

CUMBERLAND & OHIO VALLEY.—Peter Arlund, Pres. of this newly-incorporated road, which is to extend from Madison, Ind., to Nashville, Tenn., has left for New York to complete plans for the building of this road. Rights of way have already been secured and active work will commence early in the fall.

CUMBERLAND RIVER & NASHVILLE.—Incorporated in Kentucky with a capital stock of $10,000, to operate a line from Burnside, Ky., to Nashville, Tenn. L. F. Hubbell and J. C. Ogden are the incorporators.

DECATUR, DANVILLE & SOUTHWESTERN.—F. J. O'Connell, Vice-Pres., Chattanooga, Tenn., has announced that the work of grading will be started in about 60 days at both ends of the line, New Decatur, Ala., and Jasper. Supplies and materials are being purchased.

DENVER & RIO GRANDE.—It is reported that as the equipment for the narrow-gage property controlled by the company becomes old and useless it will be discarded and

new equipment of standard gage added until the entire holdings of the company are standard gage. The work of standardizing the road is proceeding steadily.

EASTERN RY. OF ALABAMA.—Bids were to have been received on Aug. 20 for building 25 miles of road from Talladega, Ala., to a point in Clay county. T. G. Baylor, Ch. Engr., Talladega.

EAST GRANBY & SUFFIELD.—Articles of incorporation have been filed by this company in Connecticut, capitalized at $100,000, for the purpose of building a road around the Montague farm in East Granby, Conn., to complete the line of the Tariffville extension of the Central New England R. R. Surveys have been made and rights of way secured. The cost of construction is estimated at $80,000. Rufus D. Holmes, Winstead; Theodore N. Maltbie, Hartford, and Chas. T. Bissell, Suffield, are interested.

HALIFAX & SOUTHWESTERN.—L. H. Wheaton, Yarmouth, N. S., Can., writes us that Mackenzie & Mann, of Toronto, Ont., have corporated their project into the above-named company. The capital has all been secured and the contracts for construction will be let as soon as the locations are secured. This company has power to build a line paralleling the Halifax & Yarmouth Ry., formerly the Coast Ry., of which 50 miles are built.

KENTUCKY.—A company has been incorporated by G. W. Mallon and S. Woodward, of Cincinnati, O.; G. M. Patterson, L. F. Hubble and W. H. Kinnaird, Lancaster, and James Denton, Somerset, to build a 40-mile railroad from Corbin to Burnside, penetrating a section rich in coal and timber. The capital stock of the company is $10,000, with the privilege of borrowing $40,000 per mile for construction purposes.

LAUREL & WAYNESBORO.—W. W. Austin, Secy.-Treas., Rockton, Ill., writes that the surveys are under way and rights of way are being secured. The company's line will be 35 miles in length, running between the points named in Mississippi. M. B. Grant, Ch. Engr., Laurel, Miss.

LITTLE ROCK & HOT SPRINGS.—Corrigan & Co., contractors, Little Rock, Ark., have about 500,000 yds. of work to let on the Choctaw extension of this line.

MILWAUKEE, WIS.—Chas. J. Poetsch, Cy. Engr., has been directed to make plans for abolishing all the grade crossings of the city, estimated to cost $10,000,000. Alderman Schranck, Chn. Grade Crossing Com.

NEW YORK.—Page, Fairchild & Co., Oswego, N. Y., will, with the Dexter Sulphite Co. and the Carthage Sulphite Co., construct a road 15 miles in length, connecting with the R. W. & O. road and running west, according to reports.

NEW YORK CENTRAL & HUDSON RIVER.—Geo. A. Lee, Inspector of Bridges, Jersey Shore, Pa., informs us that plans have been completed and bids will be received this week for the construction of the new shops at Oak Grove, Pa., which will be completed in every detail. The work will be started next month and will extend over two years. Bids will also be opened for the revision of the grade between Beaver Dam, N. Y., and Geneva, which work will require heavy cuts and fills and the replacing of several viaducts by stone arches; also the reconstruction of the viaduct over the Watkins Glen, N. Y. W. J. Wilgus, Ch. Engr., Grand Central Station, New York.

NEW YORK, NEW HAVEN & HARTFORD.—The company is calling for bids for a large section of the improvements on the Nangatuck Division. The contracts for the work will be awarded during the next few weeks. C. M. Ingersoll, Jr., Ch. Engr., New Haven, Conn.

NORFOLK & WESTERN.—Chas. S. Churchill, Engr. M.-of-W., Doanoke, Va., writes us that surveys are about half completed for extending the line from the N. C. division up New River into Ashe county, N. C.

NORTHERN PACIFIC.—The improvements to be made by this company in Duluth, Minn., will cost about $250,000. Additional buildings and new docks will be erected. A. L. Darling, Asst. Ch. Engr., St. Paul, Minn.

NORTHERN PACIFIC.—Reports state this company is building at Argo, Seattle, Wash., a new station, freight yard to handle 1,500 cars, sheds, etc.——W. S. McCord, representative of Henry Turrish, who recently purchased the timber on 27,000 acres of state land in the Collins and Elk Creek white pine belts, has established headquarters at Troy, Idaho. Mr. McCord may recommend a railroad into the Collins and Elk Creek timber belts on the line of survey followed by the Northern Pacific last year. By this survey less than 40 miles of road would traverse the Collins timber belt and an additional 20 miles would tap the Elk Creek belt. It is pointed out that within a short time the main line of the N. P. will cross the Bitter Root Mountains on the Lolo or North Fork passes, and in that event lumber could be shipped either to an East or West market from Troy. Besides there is a site for mill and yards at a point less than a mile from Troy and directly north of the N. P. track. This entire road, it is estimated, could be built and equipped for $500,000.

NOVA SCOTIA EASTERN.—Reports state that this line and the Musquodoboit Valley Ry. Co. have combined. The N. S. Eastern Ry. will build a line through the Musquodoboits, N. S., to connect with the other line from or near New Glasgow to County Harbor, a total distance of 210 miles. It is stated that work will soon be begun. J. W. Green, of Montreal, Que., and W. P. Boland, Toronto, are interested.

OREGON.—Reports from Jacksonville state that the Rogue River Mining & Lumber Co. has a project under way which will necessitate the construction of a railway 4.5 miles in length, connecting with the Southern Pacific Ry. at Woodville. Jesse McCall has prepared a preliminary survey for the line.

PENNSYLVANIA R. R.—Mayor Fleischman, of Cincinnati, O., has received a proposition from this company relative to the elevation of tracks at railway crossings in Cincinnati. The company offers to stand 65% of the expenditure, which amounts to $630,000, provided the city will pay the balance. Where the street railway is concerned the company agrees to pay 40%, and recommends that the city pay 35% and the street railway companies 25%.

PITTSBURG & LAKE ERIE.—The contract for the extension of the Pittsburg, McKeesport & Youghiogheny Division of this road to Brownsville from Fayette City, Pa., has been let to H. S. Kerbaugh & Co., of Philadelphia. The work will cost about $400,000. The extension is about nine miles in length and follows the Monongahela River for the entire distance.

PORTLAND, YAKIMA & VANCOUVER.—Reports state that the Western Construction Co., which has the contract for building the 15-mile extension of this road, has let contracts for the bridge and culvert work to the Portland Bridge Co.

THURMOND, W. VA.—Reports state that W. P. Rend has decided to build a railway around the mountain from South Thurmond to his coal mines at Rend.

VICKSBURG & SOUTHEASTERN.—P. M. Harding, Pres., Vicksburg, Miss., writes us that surveys for this line, to be 140 miles long, have just begun. Maj. Samuel Whinery, Ch. Engr., New York.

WISCASSET, WATERVILLE & FARMINGTON.—John H. Gould, of Waterville, Me., Private Secy. to President Leonard Atwood, writes us that the company is not yet ready for contracts other than those in charge of L. S. Keith, Asst. Ch. Engr., and Ch. Engr. Franklin Construction Co., Waterville. All surveying has been completed except for a few spurs to the works of manufacturers along the line. Work will start at once on the culverts and the grading will begin soon after. The 60-lb. rails on the Wiscasset & Quebec roadbed from Albion to Burnham have been taken up and will be relaid on the main branch to Waterville. Lighter rails will be substituted for the ones removed. The complete road will be about 101 miles long.

STREET AND ELECTRIC RAILWAYS.

ATTLEBORO, MASS.—The property of the Attleboro & North Attleboro R. R. has been purchased by the United Traction & Electric Co., of Providence, R. I. This company is purchasing and extending a number of the street railways in this part of the state.

FITCHBURG, MASS.—F. S. Coolidge, Pres. Mount Wachusett St. Ry. Co., writes us that surveys and the securing of locations are under way.

PALMER, MASS.—Local papers state that the Hartford & Worcester St. Ry. has been incorporated with a capital stock of $300,000, to build an electric line from Hartford, Conn., to Worcester, Mass., having a length of about 36 miles. Herbert E. Shaw, Wales; Chas. S. Tarbell, Burnfield, and Chas. H. Wilson, Brookline, are interested.

PITTSFIELD, MASS.—The directors of the Berkshire St. Ry. Co. have awarded the contract for the electrical equipment for the new road to the Westinghouse Electric Co. and Thayer & Co., of Boston. The contract calls for two generators of 750 K-W. each, the necessary equipment for the two sub-stations at Lee and Great Barrington and 48 motors for the cars. There will be four double-battery boilers of 1,500 HP., costing about $20,000. The contracts for the engines and the building of the power-house have not yet been awarded, but will probably be let in a few days. R. D. Gillette, Pres.

WOONSOCKET, R. I.—F. C. Hinds, Newton; Chas. H. Wilson, Brookline, and Thos. C. Perkins, Hartford, Conn., have plans for a new trunk trolley line between Worcester and Providence. It is planned to build through Millbury, Sutton and East Douglas.

ALBANY, N. Y.—The Hudson Valley R. R. Co. has been incorporated with a capital stock of $2,600,000. The road will unite the Glens Falls, Sandy Hill & Fort Edward St. Ry., the Stillwater & Mechanicsville St. Ry., the Greenwich & Schuylersville Electric R. R., the Saratoga Traction Co. and the Saratoga Northern Ry. All but the last named are constructed and in operation. The principal office will be at Waterford. Addison B. Colvin, Pres.; Geo. B. Green, Vice-Pres.; Thos. O'Connor, Secy.

BUFFALO, N. Y.—Daniel W. Allen writes that about nine miles of the Hamburg Ry. is built and will be ready for operation in three weeks. The line will be 12 miles long. W. J. Conners, Pres.; F. K. Wing, Ch. Engr.

LITTLE FALLS, N. Y.—The directors of the Mohawk Valley Traction Co. have elected Timothy Dasey, Pres.; Henry Churchill, Vice-Pres., and James D. Pecter, Treas. The company intends to build an electric road from Herkimer to Little Falls and will apply for the franchises at once.

NEW YORK, N. Y.—The American Elevated R. R. Co. is reported to have increased its capital stock from $100,000 to $5,000,000. It is reported that the company is to build an elevated railroad system in this city, connecting the proposed bridge across the North River at 23d St. with the New York Central & Hudson River R. R.

POUGHKEEPSIE, N. Y.—The Poughkeepsie City & Wappingers Falls Electric Ry. is to be extended from the latter place to Fishkill this fall. Work on the extension is to be started Oct. 1 and will be completed by Dec. 1. C. M. Davis, Supt.

SANDY HILL, N. Y.—Reports state that the six electric railways included in the Powers-Colvin system will be consolidated under the title of the Hudson Valley Ry., with a capital of $3,000,000. Messrs. Powers and Colvin will control the company. The roads composing the system include the Stillwater & Mechanicville, the Greenwich & Schuylerville, the Glens Falls, Sandy Hill & Fort Edward, the Western County Ry., the Saratoga Traction and the Saratoga Northern Ry. The latter is the old Mt. MacGregor road, and was recently purchased for the right of way. These lines operate more that 80 miles of road at present, and by the late fall months will have about 100 miles in operation. It is planned to connect Mechanicville and Ballston Spa, thus providing a direct trolley route to Saratoga.——The Ballston Construction Co. has been formed to build the lines of the Ballston Terminal R. R. Co. Thos. F. Barrett, Pres., Cleveland, O.; W. F. Myers, Secy. and Treas., Amsterdam, N. Y.

UTICA, N. Y.—The Utica & Mohawk Valley Ry. Co. is being formed to take over the five street railways in and about Utica, aggregating a total length of 100 miles of track. They will be connected, re-equipped and extended. The completed system will be of the best equipment and construction, and serve a population of about 100,000. The properties, with the expenditures involved will represent a cost of more than $3,000,000, a portion of which will be provided by an issue of bonds, which has been placed with N. W. Harris & Co., bankers, of New York.

HARRISBURG, PA.—Charters have been issued as follows: Ringing Rocks Traction Co., to build nine miles of road; capital stock, $45,000. Cyrus Q. Guildin, Pres., Reading; Wampun & Hoytdale St. Ry., 2.5 miles; capital stock, $15,000. Richard R. Quay, Pres.; Hoytdale & Beaver Falls St. Ry., five miles, $30,000; Moravia & Wampum St. Ry., 1½ miles, $9,000; Wampum St. Ry., one mile, $6,000. The officers of the three last-named companies are the same as those of the Wampun & Hoytdale Co.; Ellwood City St Ry., 1.5 miles, $39,000. A. W. M. Billings, Pres., Pittsburg; New Castle & Moravia St. Ry., five miles, $30,000. R. R. Quay, Pres.; Bloomsburg & Benton St. Ry., 20 miles, $120,000. Wm. S. Moyer, Pres., Bloomsburg; Perkiomen Valley St. Ry., 30 miles, $180,000. H. C. Trexler, Pres.; East Bangor, Portland & Delaware River St. Ry., seven miles, $42,000; Bangor Valley St. Ry., one mile, $6,000; Bangor & East Bangor St. Ry., three miles, $18,000. Dr. B. F. Dillard, East Bangor, is President of the three last-named companies; Susquehanna & Southern R. R., to run from Hazleton to Shenandoah; $70,000; Hazleton & Suburban St. Ry., three miles, $18,000; Shenandoah & Suburban St. Ry., one mile, $6,000; G. A. Schneebell, Pres., Nazareth.

PHILADELPHIA, PA.—Local papers state that a company has been formed, to be known as the Washington, Leonardtown & Point Lookout Ry., to build an electric line from Washington, D. C., to Point Lookout, a distance of about 98 miles. The surveys have been completed by Damon Harris, of Darby, and the rights of way acquired for about two-thirds of the distance. C. R. Jones, Gen. Mgr.

CHARLESTON, W. VA.—The Charleston & Kanawha Valley Power & Ry. Co., of Charleston, has been incorporated to build an electric line between this city and St. Albans, and also to Malden and Kanawha Falls. The company is capitalized at $500,000. Thos. J. Cormack, of this city; John W. Coburn, Philadelphia, and E. D. R. Sutton, Wilmington, Del., are incorporators.

GAINESVILLE, GA.—The stockholders of the Dahlonega have changed the amount of the bonds issued from $600,000 to $750,000. W. A. Carlisle, Engr., is now at work on the right of way. The building will probably be started by Oct. 1. The company has secured the Dunlap Shoals property, which comprises 750 acres, extending from the corporate limits of Gainesville to the river, about four miles distant. This includes the Dunlap Shoals water power on the river, which covers sufficient amount of the river to build a 36-ft. dam with a 5,000 HP. S. C. Dunlap is interested.

CHATTANOOGA, TENN.—Local papers state that the Chattanooga Electric Ry. Co. will expend $80,000 on improvements and that work will be started at once. J. W. McFarland, Supt., Chattanooga.

CHATTANOOGA, TENN.—The Cumberland Coal & Timber Co., owning a large tract of land in Warren and adjoining counties, has been merged in the Tennessee Co. of Cleveland, O., and capitalized at $5,000,000. The new company owns 40,000 acres of timber and coal lands, which it proposes to develop. Ralph E. Aldrich, of Detroit, Pres. of the Cumberland company, states that the new company will develop the prospects at once and build an electric road from Nashville to Chattanooga. The company owns a number of water-power sites, by which they propose to operate the electrical machinery.

COLUMBUS, O.—Bids are wanted by the Scioto Valley Traction Co., Room 42, Board of Trade Bldg., until Sept. 5, for the grading, culvert and bridge masonry, piling, concrete, etc., for the grade of the company's line between Valley Crossing and Lancaster, a distance of 29 miles, as stated in our advertising columns. B. Mahler, Pres.; A. W. Jones, Ch. Engr.

NEWCOMERSTOWN, O.—Geo. M. Beerbower, of New York, is reported as about to make surveys for the Uhricksville, White City & Newcomerstown Electric Ry. J. L. White, Pres. White Improvement Co., is interested.

TOLEDO, O.—The Toledo, Columbus, Springfield & Cincinnati Ry. Co. has been incorporated with a capital stock of $100,000, to build and operate an electric railway having as its termini Toledo and Columbus. Wm. P. Heston, Samuel C. Heston and Claude Wyant are incorporators.

INDIANAPOLIS, IND.—The Richmond, Nation City & Portland Interurban Co. has filed articles of incorporation, capitalized at $50,000. C. S. Pierce, Pres.; L. C. Huesemann, Secy.

DETROIT, MICH.—The West Michigan Traction Co. has been incorporated with a capital stock of $1,000,000, for the purpose of building a road from Benton Harbor through Dowagiac, Cassopolis, Paw Paw, Decatur and Allegan to Kalamazoo, a distance of about 90 miles. The road will be operated by electric power. C. O. Hadley, New York; C. W. Haight, New Haven, Conn.; H. J. Jewett, Chicago.

OTTAWA, ILL.—A charter has been taken out by the Illinois River Ry. Co., capitalized at $150,000, with headquarters at Ottawa. The object of the company is to build and equip a line to Marseilles and possibly Seneca and Ottawa. The line to Marseilles will be built with 65-lb. steel rails. L. W. Hess, J. I. Warner and Henry A. Sherman are interested.

LA CROSSE, WIS.—The La Crosse St. Ry. Co. will begin work at once on the extension to the Country Club links. B. E. Edwards, Pres.

MADISON, WIS.—The Sheboygan, Elkhart Lake Ry. & Electric Co. has filed articles of organization, capitalized at $200,000. Its purpose is to build an interurban electric railway from Sheboygan to Waldo and Elkhart Lake. John M. Saemann, Sigmund Blumenfield and Stedman Thomas are interested.

MARINETTE, WIS.—A company is purchasing control of the Marinette and Menominee electric railways, which it is proposed to combine and spend about $100,000 in improvements. John Henes, of this place, and Attorney Fawley are interested.

FERGUS FALLS, MINN.—A number of local capitalists are figuring on the cost of an electric car line between this city and Perham.

OMAHA, NEB.—Lyman Waterman, of the New System Traction Co., has begun arrangements for the construction of the electric line from Creston to Winterset, Ia. The construction will be started at Creston, where the city lines will be completed before the building of the line to Winterset is started.

KANSAS CITY, MO.—The Metropolitan St. Ry. Co. is stated to be arranging for the construction of a new power house in the Heim district, on the Missouri River, to cost about $1,250,000.

TORONTO, ONT.—The Toronto St. Ry. Co., it is stated, proposes to build a belt line around the city, etc.

ELECTRIC LIGHT AND POWER.

SPRINGFIELD, MASS.—The United Electric Light Co. has purchased a lot in Bridge St., on which it is proposed to build a new electric plant.

WELLESLEY, MASS.—F. H. Gilson, G. G. S. Perkins and W. H. Blood, Jr., are on a committee to investigate the question of securing electric lighting from sources other than that of the Natick Gas & Electric Co.

DERBY, CONN.—The Housatonic Power Co., controlled by the Connecticut Ry. & Lighting Co., is arranging to build its proposed power plant on the Housatonic River near here. The power will be distributed throughout New Haven, Fairfield and Hartford counties.

POUGHKEEPSIE, N. Y.—Bids are asked until Aug. 31 for engines and dynamos for the Hudson River State Hospital, as stated in our advertising columns. G. L. Heins, State Arch., Albany; F. B. Lown, Pres. Bd. of Mgrs.

ORANGE, N. J.—The National Electric Light, Heat & Power Co. has been awarded a lighting contract for five years from Dec. 1. Wm. E. Gilmore, Gen. Mgr. Edison Plant in West Orange, N. J., is president.

LANCASTER, PA.—The Lancaster County Ry. & Light Co., recently incorporated, has let contracts for its new plant, to cost about $300,000.

PHILADELPHIA, PA.—D. O. Bourse has been awarded the contract by J. F. Stuckert, Arch., for constructing a power house for H. Roelof & Son, of Roelof Station, Pa.

SCRANTON, PA.—Secretary Allen, of the International Correspondence Schools, of Scranton, has applied for a charter for an electric company to furnish light to Dalton, Clark's Summit, Waverly, Glenburn and Factoryville.

STEELTON, PA.—The Steelton Home Gas Co. has purchased ground for a new gas plant.

FORT WASHINGTON, MD.—Bids are asked until Sept. 19 for an electric plant at Fort Washington, as stated in our advertising columns. Lieut.-Col. C. J. Allen, U. S. Engrs., Washington, D.C.

NORFOLK, VA.—R. A. Stewart has been granted an injunction to restrain the city from issuing bonds for an electric plant.

ROANOKE, VA.—Wm. Wolfenden, of Salem, Va., has been awarded a contract for putting in an electric plant at the Roanoke Cotton Mill, and also for a plant in Pulaski, Va.

GREENSBORO, N. C.—R. I. Marks, Mgr. Greensboro Electric Light & Power Co. writes us that all contracts for the materials, etc., for the proposed electric plant have been let.

GREENVILLE, N. C.—J. L. Ludlow, Engr., Winston, N. C., writes us that the plans, etc., for the proposed electric plant, water-works and sewerage for this place have been completed, but as yet no date has been set for receiving bids.

MOUNT AIRY, S. C.—This place is reported to have voted on Aug. 19 on the question of issuing $14,000 in bonds for an electric plant and other improvements.

ALBANY, GA.—New bids will soon be asked by the council for the purchase of $25,000 of bonds for the proposed electric plant.

ATLANTA, GA.—The Atlanta Ry. & Power Co. is reported as about to ask to have its franchise extended for 50 years in all; the limit at present being 21 years. Ernest Woodruff, Pres.

DALTON, GA.—S. McFuley, Mayor, writes us that this place will vote Aug. 31 on the question of issuing $24,000 in bonds for sewers and $6,000 for an electric plant. Address the City Clerk.

DAYTONA, FLA.—The Daytona Electric Light Co. has been awarded a contract for furnishing this place with 30 arc lights.

MONTGOMERY, ALA.—The council has granted a 50-year franchise to the Montgamery Light & Power Co. from Nov. 1, 1902. Improvements to the present plant to cost about $60,000 will be made.

CLEVELAND, TENN.—W. S. Tipton, P. H. Walker and Geo. Hardwick are reported to have formed a company to build an electric plant.

BRADNER, O.—This place has voted to issue $13,500 in bonds for an electric plant.

COLUMBUS, O.—John T. Norris, formerly Supt. Municipal Electric Plant, has submitted a proposition whereby the plant can be operated, after the private contract expires, for $36.10 a light a year.

CONNEAUT, O.—G. B. Pike, Cy. Engr., writes us that this place has voted to issue $20,000 in bonds for improving the electric light plant, $100,000 for sewers and paving, and $10,000 for a city building.

CUYAHOGA FALLS, O.—Reports state that an eastern syndicate proposes to develop the water power between Cuyahoga Falls and Kent.

NEWTON FALLS, O.—Bids are asked until Aug. 29 for furnishing 15 arc lights. B. F. Lovett, Mayor.

NORWOOD, O.—The committee has reported in favor of the city retaining the electric plant and enlarging it at a cost of about $50,000. Geo. E. Mills, Mayor.

MARION, IND.—The council has decided to increase the size of the electric plant. Councilman Kelley, Chn. Com.

SOUTH BEND, IND.—We are informed that plans for the proposed electric plant have been abandoned for the present. A. L. Hammond, Engr. Address Mayor Colfax and Councilman Loughman.

MASCOUTAH, ILL.—Carl Montag, Editor "Herald," writes us that the city is about to let a new contract for street lighting.

FOND DU LAC, WIS.—The Fond du Lac St. Ry. & Light Co. is reported as letting contracts for its proposed new power plant, to be in operation in October.

LA CROSSE, WIS.—The new company, which recently consolidated the various light and power companies, with a capital of $500,000, has asked for a new 25-year franchise from March 28, 1907. Business men of the city have formed an opposition company, and they will ask for permission to build a plant at once.

MADISON, WIS.—The question of a municipal electric light plant is being considered. The contract with the Madison Gas & Electric Co. expires Oct. 1, 1902. Address Alderman Sparling and City Engineer Turneaure.

MERRILAN, WIS.—This place has voted to issue $10,000 in bonds for an electric plant and water-works.

CLARINDA, IA.—L. W. Lewis, Chn. Com., writes us that $15,000 worth of stock has been subscribed for and that investigations regarding the kind of plant to put in are being made.

OLIN, IA.—This place has voted to grant a franchise to a company to build an electric plant.

WASHINGTON, IA.—An election will be held Sept. 9 to vote on the question of building an electric plant. Address Mayor Wilson.

MINNEAPOLIS, MINN.—Alderman Leighton has presented a resolution providing for the submitting to the people at the next election the proposition of issuing $300,000 in bonds for a municipal electric plant.

ST. PAUL, MINN.—J. W. Shepard, Secy. Imperial Mfg. Co., writes us that the company is awaiting a franchise from the city for its proposel electric plant, and until this is granted no work can be done.

CASSELTON, N. DAK.—C. R. Meredith, Mayor, writes us that the electric plant needs a boiler and some repairs.

JAMESTOWN, N. DAK.—The Jamestown Electric Co. has been granted a franchise for a plant to cost about $12,000.

IDAHO SPRINGS, COLO.—The Seaton Mountain Electric Light, Power & Heating Co. has made a proposition to light the city.

KAHOKA, MO.—Bids are asked until Aug. 28 for an electric plant and water-works. G. C. Morgan, Engr., Royal Insurance Bldg., Chicago; G. W. Henry, Cy. Clk.

SLATER, MO.—J. A. Bendure, of Atchison, Kan., has been awarded a contract for rebuilding the electric plant.

DAYTON, WASH.—C. B. Woodward, Mayor, writes us that a proposition to issue bonds for either building or buying an electric plant was defeated recently.

EVERETT, WASH.—The Everett Improvement Co. has let the contract for an electric plant to Geo. McKenzie, at about $25,000.

SAN BERNARDINO, CAL.—F. C. Finkle, Engr. California Power Co., has set men at work building a two-mile road up Kern Canyon for purpose of making way to haul material to be used in driving 20 tunnels into the mountains for water. Three power plants will be erected in Kern Canyon, to serve Los Angeles, 140 miles distant, with electricity. About 20,000 ins. of water will be developed, having a fall of at least 800 ft. This will be sufficient to generate about 15,000 HP. At least two years will be taken to complete plant, which will cost over $2,000,000.

SAN JOSE, CAL.—R. G. Hanford, of San Francisco, Cal., has filed notices of an intention to utilize the waters of the Mount Hamilton watershed for power and irrigation purposes. It is thought that Pepper & Register, of Philadelphia, Pa., are interested.

OTTAWA, ONT.—Reports state that Louis Simpson, Victoria Chambers, Ottawa, is interested in a proposed power plant at Chats Falls, near Ottawa, to develop about 100,000 HP.; estimated cost about $700,000.

SAULT STE. MARIE, ONT.—Geo. Goodwin, of Ottawa, Ont., has been awarded the contract for the second power canal at the Soo. The canal will be the same length as the present power channel, but will be larger, 26 ft. deep and 150 ft. wide. The excavation will include 500,000 cu. yds. of rock, and 40,000 cu. yds. of earth. The head gates and power house are not included in the specification. The Clergue syndicate intend erecting at the Soo a flour mill with a capacity of nearly 4,000 barrels a day.

TORONTO, ONT.—It is stated that G. A. Bronder, 32 Broadway, New York, has secured the contract for a $100,000 gas plant for the Consumers' Gas Co., which has been sublet to the Link-Belt Engineering Co., 49 Dey St., New York, for 5,000 ft. of conveyors, to the B. F. Sturtevant Co., 131 Liberty St., New York, for the blowers, to the Passaic Rolling Mills, Paterson, N. J., for steel sections, and to the Lukens Iron & Steel Co., of Coatesville, Pa., for the sheet steel.

BRIDGES.

DEPOSIT, N. Y.—Local papers state that a new $15,000 iron bridge will be erected at Windsor, to replace the present wooden structure.

BROOKLYN, N. Y.—The matter of building a bridge from the main yard at the Brooklyn Navy Yard to the Cob Dock is being considered by a board appointed for that purpose. Congress appropriated $115,000 about a year ago for the building of the bridge.

NEW YORK, N. Y.—Bids are asked until Aug. 28 for the construction of a bridge over the Bronx River at Westchester Ave., Borough of the Bronx. John L. Shea, Comr. of Bridges, 21 Park Row.

SYRACUSE, N. Y.—W. P. Buckley, Secy., 20 City Hall, writes that the contract for the bridge over the Onondaga Creek in Brighton Ave. was let on Aug. 12 to G. W. Dakin, of Syracuse, at $3,124.

PATERSON, N. J.—The board of freeholders have decided to build a bridge over the canal and river at the foot of Monroe St., Passaic, to cost about $40,000.

PHILADELPHIA, PA.—The highway supervisors have granted a permit to the Pennsylvania R. R. Co. to build a new bridge on its main line across 52d St., according to plans recently approved by the Board of Surveys. The bridge will be 100 ft. long.

WASHINGTON, D. C.—Col. Chas. J. Allen, U. S. Engrs., has recommended the entire rebuilding of the aqueduct bridge, including new piers and trusses. He estimates the cost with a 40-ft. roadway and 8-ft. sidewalk at $860,000.

DUBLIN, GA.—The bridge committee has awarded the contract for the extension of the Oconee River bridge to George H. Crafts & Co., Atlanta. The contract calls for the completion of the work by Feb. 1, 1902. The extension will be 1,100 ft. in length and will be of steel.

BIRMINGHAM, ALA.—Bids are asked until Sept. 10 for building a one-span steel bridge across Village Creek, to be 56 ft. long and 14 ft. wide. J. F. B. Jackson, Ch.

MT. PLEASANT, TENN.—Granbery Jackson, Engr., Mt. Pleasant, writes us that no regular contract letting will be held for the award of the contract for building a pony truss steel bridge over Sugar Creek at this place, to have one 50-ft. span, and to cost $700. Mr. Jackson, who is in charge of the work, is receiving propositions for building the bridge and will make the award as soon as all are received.

NASHVILLE, TENN.—The following bids were received by the county court committee on Aug. 14 for constructing a 100-ft. span steel truss bridge over Shane's Fork of Mausker's Creek: A. J. Dyer, $1,795 (accepted); American Bridge Co., $1,870; H. T. Sinnott, $1,820; John Broderick, $1,919; Iowa Bridge Co., R. D. Goodlett, agent, $1,875.

CINCINNATI, O.—Bids are asked until Sept. 10 for the purchase of $250,000 viaduct bonds. Robert Allison, Pres.

CLEVELAND, O.—James Ritchie, Consulting Engr. Grade Crossing Com., 413 Chamber of Commerce, informs us that plans have been prepared for the elimination of the following grade crossings in this city: Union St., viaduct 1,652 ft. long over Erie R. R. and Pennsylvania R. R.; by subway under Lake Shore and Michigan Southern Ry. at the following points: Detroit St., West Madison Ave., Gordon Park Ave., Hoyt Ave., Case Ave. and Poe St. Plans are now being prepared for the crossings of the Pennsylvania R. R. and all other streets of the city intersecting same, also for Detroit St. and Euclid Ave. crossings of the N. Y., C. & St. L. R. R. Steps will be taken towards construction as soon as the plans are approved by the several railway companies concerned.

COLUMBUS, O.—Plans for the overhead bridge and trestle at the intersection of the C. H. & D. and the Mill Creek Valley Electric Ry. tracks at Schenck's Station have been approved by Railroad Commissioner Morris. The bridge will be 100 ft. long and the approaches 900 ft., and will cost $8,000.

ZANESVILLE, O.—Bids are asked until Sept. 10 for the construction of the superstructure of the draw span at the easterly end of the new "Y" bridge over the lateral canal of the Muskingum River. Jas. L. Starkey, County Audr.

INDIANAPOLIS, IND.—Bids are asked until Sept. 9 for constructing a bridge over Crooked Creek, two miles west of Broad Ripper. Harry B. Smith, County Audr.—The board of works has received the following two bids for the work of strengthening the Washington St. bridge over White River: American Bridge Co., $3,474; Canton Bridge Co., $3,415. A readvertisement will probably be made, as both bids are too high.

JACKSON, MICH.—Local papers state that an $85,000 bridge over the Grand River at Wealthy Ave. is a possibility for next summer.

THREE RIVERS, MICH.—The council has received plans and bids for the construction of a concrete bridge on Third Ave. from the following: J. S. Small, Piqua; National Bridge Co., Lafayette, Ind.; Grand Rapids Bridge Co., Grand Rapids, and Jackson Bros., of this city.

YPSILANTI, MICH.—Bids are asked until Aug. 26 for the construction of a bridge across the Huron River at Forest Ave., Ypsilanti, as stated in our advertising columns. W. E. McLeod, Cy. Clk.

CHICAGO, ILL.—The South Park board has decided to expend nearly $200,000 in improvements. A new bridge of red granite and concrete is to be built at the north end of the wooden island in Jackson Park at a cost of $25,000. Bids will be advertised for at once.

PITTSFIELD, WIS.—Bids are wanted by the county supervisors until Aug. 26 for the construction of a steel bridge across the south branch of Suamico River.

MINNEAPOLIS, MINN.—The council has recommended the issuance of $215,000 in bonds for new bridges.

LEAVENWORTH, KAN.—Bids are asked until Aug. 2 for building an iron bridge in Tonganoxie township. T. W. Niehaus, County Clk.

MILES CITY, MONT.—The question of building a steel wagon bridge over the Yellowstone River at a point about two miles west of this city, at a cost of $50,000, is reported to have been favorably voted upon.

HELENA, MONT.—Local papers state that a site for the bridge across the Missouri River has been secured. T. R. Hinsdale, County Surv.

CAINESVILLE, MO.—Reports state that a modern bridge is soon to be constructed across the Grand River.

KANSAS CITY, MO.—Theo. C. Bates, of Worcester, Mass., President of the Union Depot, Bridge & Terminal Co. of Kansas City, is reported as saying that work will be started in the near future on a three-deck and double-track bridge over the Missouri River at Kansas City. The plans for the structure are practically completed.

DEVALL'S BLUFF, ARK.—Bids are asked until Aug. 26 for building a bridge across Wattensas Bayou. John R. Reid, County Judge.

FT. WORTH, TEX.—W. R. Booth, Chn. Highways Com., has petitioned the board of trades for an appropriation of $25,000 for the construction of a viaduct across Jennings Ave.

SANTA ROSA, CAL.—The county supervisors have awarded the contract for building the county bridge across Russian River at Cloverdale to the San Francisco Bridge Co. at $9,942.

STOCKTON, CAL.—The clerk of the board of supervisors has been ordered to advertise for bids for a steel drawbridge at Burns' cut-off. The Lockeford and Bellota bridges will probably be replaced by steel structures.——The following awards have been made for bridges: Bridge at French Camp slough, Clark & Henery, $2,638; West Lane bridge over the Calaveras River, J. N. B. White, $1,798; Cherokee Lane bridge over the Calaveras, Clark & Henery, $2,068.

FREDERICTON, N. B.—Bids are asked until Sept. 30 for the steel superstructure of Andover Bridge, across the St. John River, as stated in our advertising columns. C. H. LaBillois, Ch. Comr. Dept. Pub. Wks.

TORONTO, ONT.—The provincial government has decided to build two new bridges over the Sturgeon River, one at Field and the other at the Indian Reservation. Plans will be prepared at once. Robt. McCallum, Gov. Engr., Toronto.

BUILDINGS.

WORCESTER, MASS.—Bids are asked until Aug. 26 for building a 6-room schoolhouse. Chas. H. Peck, Supt. Public Bldgs.

PROVIDENCE, R. I.—Bids are asked until Aug. 29 for heating, plumbing and electric wiring the new Central Fire Station. Burmah E. Perkins, Chn. Com. on City Property.

BROOKLYN, N. Y.—The department of yards and docks at the navy yard is preparing to begin the erection of four new buildings, to cost about in the neighborhood of $1,000,000. An additional expenditure of $1,000,000 will be required for the construction of a coaling pier at the cob dock and a number of buildings on the ordnance dock. All of these improvements are expected to be completed before the end of next summer.

LANCASTER, N. Y.—Bids are asked until Aug. 30 for the purchase of $40,000 in bonds, to be used for the construction of a new school house in this village. John G. Miller, Pres. Bd. Education.

NEW YORK, N. Y.—Contracts have been let for the new theatre to be erected at Lexington Ave. and 107th St. by W. E. Keogh. The building will be 40 × 100 ft., and will cost about $150,000. Neville & Bagge, Archs.; Delaney Bros. & Co., contractors.——Three stories will be added to the building of the Central R. R. of New Jersey at Liberty, Washington and West Sts., making it 13 stories. The work will cost $150,000. Plans have been filed by Louis Hoenune, Arch.

NEW YORK, N. Y.—Plans have been filed by Charles Wittenauer, 36 West 15th St., for a six-story brick loft with store, 33 × 86 ft., at 60 and 62 West 15th St., to cost $70,000. F. A. Minath, Arch., 287 4th Ave.; by the trustees of the Teachers College, Lawrence St., near Amsterdam Ave., for a five-story brick dwelling and school, 49 × 70 ft., at above address, to cost $70,000. E. A. Josselyn, Arch., 36 East 22d St.; by John E. Thrall, 8 Sands St., Stapleton, for a six-story brick warehouse, 66 × 100 ft., at 1 and 3 Front St., to cost $60,000. F. M. Wright, Arch., 503 Fifth Ave.; by William J. Burbridge, 34 East 9th St., for alterations to a four-story brick dwelling, at 33 West 33d St., to cost $80,000. Clarence Luce, Arch., 292 4th Ave.; by the City & Suburban Homes Co., 281 4th Ave., for a six-story brick tenement, 204 × 96 ft., at Avenue A, from 78th to 79th Sts., to cost $180,000. Harde & Short, Archs., 3 West 29th St.; by Kluber & Ryan, 8th Ave. and Horatio St., for a six-story brick storage house, 73 × 103 ft., to cost $125,000. H. E. Meyer, Arch., 456 Willoughby Ave., Brooklyn; by the Congregation of St. Ignatius Church, 43 W. 39th St., for a 1-story brick church, 76 × 100 ft., to cost $80,000. Charles C. Haight, Arch., 111 Broadway; by William B. Leeds, 987 Fifth Ave., for a three-story brick stable, 62 × 100 × 66 × 100, at 56 to 60 East 88th St., to cost $95,000. Hunt & Hunt, Archs., 28 East 21st St.; by Charles Buek, 109 West 42d St., for two five-story brick dwellings, 39 × 90 × 20 × 90 × 40 × 80 × 33 × 80, at 53d St., near Madison Ave., to cost $160,000. Charles Brendon, Arch., 109 West 42d St.; by Birdsell Otis Edey, 114 West 55th St., for a five-story and basement brick dwelling, 25 × 73, at 10 West 56th St., to cost $50,000. Warren & Wetmore, Archs., 3 East 33d St.; by the Cumberland Realty Co., for a 20-story and attic brick office building, in Broadway, 5th Ave. and 22d St., to cost $1,000,000. D. H. Burnham & Co., Archs.; by Richard J. Leary, for a 10-story brick factory and storage house, 25 × 103, at 4 West 16th St., to cost $100,000. John W. Stevens, Arch.; by William H. Beard, 111 Broadway, for an eight-story apartment house, 100 × 93 × 86, in 98th St., near

West End Ave., to cost $243,000. H. A. Reeves, Arch., 100 East 17th St.; by L. R. Mestanig, for two six-story brick flat houses, at Bergen Ave. and Rose St., one 123 × 96 ft., the other 75 × 94 ft., to cost $125,000. Harry S. Howell, Arch.; by Charles M. Rosenthal, 171 Broadway, for an eight-story brick storage, 75 × 95 ft., in 64th St., near Broadway, to cost $250,000. Benjamin W. Levitan, Arch., 489 5th Ave.; by Charles A. Darck, 536 5th Ave., for a nine-story and basement brick apartment house with store, 25 × 85 ft., at 341 Madison Ave., to cost $90,000. H. J. Hardenbergh, Arch., 10 West 23d St.; by George L. Fiske, 246 West 100th St., for a 12-story brick hotel, 70 × 88, in 47th St., near 7th Ave., to cost $600,000. Frederick C. Browne, Arch., 143 West 125th St.; by W. W. & J. M. Hall, 11 East 42d St., for a four-story and basement brick dwelling, 20 × 73 ft., at 17 East 63d St., to cost $100,000. Welch S. Provot, Arch., 11 East 42d St.

WEST POINT, N. Y.—Bids are asked until Sept. 23 for the construction of the south wing to the Cadet Hospital, as stated in our advertising columns. Address Q. M., U. S. M. A.

MAUCH CHUNK, PA.—The building committee of the school board have decided to advertise for bids until Sept. 15 for erecting the new school building. Plans have been prepared by Davey & McGlynn, Archs. Dr. W. E. Long is one of the board.

PHILADELPHIA, PA.—John R. Wiggins, contractor, is taking bids for a 5-story building, containing passenger elevators, at 13th and Cherry Sts. C. E. Rahn, Arch. Mr. Wiggins is also receiving estimates for an eight-story addition to S. P. Watkins, Jr., Building. Albert W. Dilks, Arch.——The contract for erecting Keith's Theatre has been let by A. E. Westover, Arch., 1033 Chestnut St., to Steele & Co. Work will begin at once, and will be finished by July 1, 1902. It will be eight stories, and the furnishing will cost $70,000.——Wilson Bros. & Co. are designing an apartment house for West Philadelphia, to cost about $500,000. The same firm has prepared plans for the two new shops at the Frankfort Arsenal, for which the contract has been let to George W. Pierson.——Peter Kuhn, Arch., has completed plans for a 5-story factory for S. S. Fretz at 10th and Diamond Sts.——Plans have been completed by Harry S. Blair, Arch., for the new police station, to be erected at Centre Ave. and Devillers St. There will be 18 steel cells in the building, which will cost $30,000.——A permit has been issued to J. E. & A. L. Pennock for a 10-story addition to the New York Mutual Life Bldg., at 1011 Chestnut St. The structure will be 24 × 97 ft., and will cost $500,000.——Chas. W. Hays, Arch., 1612 Walnut St., is preparing plans for a 4-story summer hotel, to be built in Oak Lane by Dr. George W. Stewart, at a cost of $70,000.——George F. Payne & Co. have a permit for a 7-story brick printing house for Stephen Greene & Co., at 16th and Arch Sts., to cost $65,000.——Milligan & Webber, Archs., are preparing plans for a 5-story apartment house for W. H. Walker at 42d St. and Baltimore Ave., to be 60 × 160 ft., and to cost $100,000.——A permit has been taken out by Frank S. Riggs, builder, for a 5-story store building at 1215-17 Arch St. for A. M. Mershon; estimated cost, $65,000.

PITTSBURG, PA.—It is officially announced that ground will be broken at once for the warehouses to be erected by the Pittsburg Warehouse & Terminal Storage Co. on the south side. The warehouses to be erected will be 30 in number, and, it is expected, will be completed by Dec. 1. The company is capitalized at $3,000,000.——C. M. Schwab has let the contract for Homestead's new Manual Training School to Wm. Miller & Sons, Pittsburg, at $80,000, work to begin at once.

READING, PA.—Seymour & Paul A. Davis, Archs., 907 Walnut St., Philadelphia, have completed plans and are receiving bids for a 9-story office building for the Colonial Trust Co. at Fifth and Penn Sts.

WASHINGTON, D. C.—The following firms have been invited to submit plans for the competition for the new building to be erected for the Department of Agriculture, the competition to close on Oct. 21: Brite & Bacon, Babb, Cook & Willard, Lord & Hewlett, Carrère & Hastings, and John R. Pope, New York; Cope & Stewardson, Philadelphia; Peabody & Sterns and Wright & Haven, Boston, and P. J. Weber, Chicago. The new building will be three stories and basement. It will be fireproof and of stone construction. The cost is placed at $2,000,000.——A site is being sought for a new Chinese legation building.——The following bids were received by B. R. Brown, Supt. Library Building and Grounds, Aug. 13 for the steel trussed covered ways in the Library of Congress Building: Frank N. Carver, Washington, $5,881; Ambrose B. Stannard, New York, $6,840; Snare & Triest, New York, $4,776 if completed by Nov. 1, $4,900 if completed by Oct. 15; Richardson & Burgess, Washington, $6,707; Penn Bridge Co., Beaver Falls, Pa., $5,287; Bartlett, Hayward & Co., Baltimore, Md., $7,800; The Champion Iron Co., Kenton, O., $5,426.

WASHINGTON, D. C.—Extensive improvements are contemplated at the military posts at Fort Monroe, Va.; Fort Leavenworth, Kan.; Fort Sheridan, Ill., and San Francisco, Cal.——Tyesowski Bros. have been granted a permit for a nine-story fireproof office building at 15th and G Sts., to cost $75,000.——Moses & Co. intend shortly to erect a five-story addition to their present store on F St., between 11th and 12th Sts., N. W.——A building permit has been issued to Mr. C. C. Willard, to erect a $60,000 office building on F St., N. W., between 13th and 14th Sts., N. W.——A building permit has been issued to the Merchants' Parcel Delivery Co., to erect a warehouse on E St., N. W., between 8th and 9th Sts., to cost $145,000.

WASHINGTON, D. C.—Bids are asked until Aug. 26 for electric light fittings and materials for the Interior Departments buildings. E. A. Hitchcock, Secy. Dept. of Interior.——Bids are asked until Aug. 24 for erecting at the Curtis and Addison school buildings, two steam boilers, one engine, one pump, steam-heating and ventilating apparatus. Wm. Tindall, Secy. Bd. Comrs.

BERKLEY, VA.—Bids are asked until Sept. 2 for erecting two school buildings, one in Berkley and the other in South Norfolk; also for heating the same by hot-air system. M. C. Keeling, Berkley.

NORFOLK, VA.—It is proposed to erect a 10-story business building on the site opposite the new post office and federal court. Plans have been completed. The building will be occupied by Myers & Co., Richmond.

MACON, GA.—Bids are asked until Sept. 3 for the erection of a fireproof annex to the Bibb county courthouse. S. C. Davis, Clk. County Comrs.

JACKSONVILLE, FLA.—Plans have been completed by H. J. Klutho, of the firm of Golucke & Klutho, Archs., New York, for a 5-story business block for the Dyal-Upchurch Investment Co., to cost $75,000. The building will be 76 × 105 ft.

BIRMINGHAM, ALA.—Plans are being prepared by Walters & Ullman, Archs., for a new building to be erected by the Southern Club.——The Means & Fulton Iron Works, of this city, has received the contract for the new steel stockhouse, bins and stock yard for the Republic Iron & Steel Co. at Thomas, to cost about $60,000.——The following bids were opened by the city hall committee on Aug. 6 for repairs to the city hall: A. Stockmar, for building work, $12,500; Van Dorn Iron Works Co., $18,965; Stewart Iron Works, $16,364; Youngblood Bros., $20,300; The Pauly Jail Building & Mfg. Co., $24,400; Alabama Jail & Building Co., $20,905.

NEW ORLEANS, LA.—The following bids were received by V. Tujague, Comptroller, on July 1 for erecting a new jail, and on July 22 for installing a passenger elevator in the city hall building: Jail—F. A. Noullet & Co., New Orleans, $112,800; W. T. Carey & Bro., New Orleans, $107,197 (accepted); Glover & Nicard, New Orleans, $127,445; W. U. Mills & Co., New Orleans, $117,770; elevator, Otis Elevator Co., $1,812 (accepted).

HAZLEHURST, MISS.—The courthouse commission has adopted the plans furnished by the J. Reily Gordon Co., Shreveport, Ala., for the new $50,000 courthouse for Copiah county. The contract will be let in October.

KNOXVILLE, TENN.—The contract for building the $50,000 passenger depot for the Southern Ry., in this city, has been let to Nicholas Ittner, of Atlanta.

AKRON, O.—F. O. Weary, Arch., Savings Bank Bldg., writes us that plans are now being made for a 3-story jail for Summit county, to be 80 × 110 ft., and to cost $65,000. Bids will be called for next month. The building will be of stone, brick and steel and fireproof, equipped with a blower-fan system of heating and ventilating, and electric light. Mr. Weary has also made preliminary drawings for a $150,000 mansion, 100 × 100 ft., for O. C. Barber. Further developments will be made this winter and work will be started in the spring.

CINCINNATI, O.—Local papers state that Fleischmann & Co. will erect a large grain elevator at their Riverside plant, to cost about $250,000. Plans are being perfected for the building and work will be started in a short time.

HOUGHTON, MICH.—The Northern Construction Co. has received the contract for the erection of the two new buildings and the addition to the Mechanical Engineering building at Michigan College of Mines. The contract price was $56,560.

ROCK ISLAND, ILL.—The contract for the erection of the new library building has been let to Collins Bros. The firm's bid on Berea stone is $59,392, and with Bedford stone $58,147. The library board has not yet decided on the kind of stone to be used.

MILWAUKEE, WIS.—The statutory committee has adopted the plans submitted by Buemming & Dick for the Second Ward school building at Seventh and Prairie Sts. The appropriation is $50,000. The building will be three stories, of brick and Wauwatosa limestone.

AITKIN, MINN.—Fremont D. Orff, Arch., Minneapolis, has completed plans for a $50,000 high school building at this place. The building will be three stories, 76 × 137 ft.

MINNEAPOLIS, MINN.—Permits have been granted to the state of Minnesota for a physics building, to cost $75,000, and for a mechanics building, to cost $60,000, for the U. of Minn.

ST. PAUL, MINN.—Bids are asked until Sept. 24 for the mechanical equipment and power house for the new state capitol building. Channing Seabury, Vice-Pres. State Capitol Comrs., 512 Endicott Bldg. Cass Gilbert, Arch., 524 Endicott Bldg., and Constable Bldg., New York.

LAWRENCE, KAN.—The contract for the construction of the new museum building at the University of Kansas was let by the board of regents on Aug. 6th to Henry Bennett, of Topeka, at $65,444.

SHERIDAN, WYO.—Bids are asked until Sept. 14 for constructing barracks at Fort Mackenzie, Wyo., including plumbing, heating and electric wiring. Capt. R. L. Brown, Q. M.

KANSAS CITY, MO.—It is stated that John Thatcher has purchased the property at 1210 and 1212 Grand Ave. and will build a $45,000 business building, to be occupied by the Famous Furniture & Carpet Co. Plans are being prepared by John W. McKecknie, Arch., N. Y. Life Bldg., for a building 50 × 115 ft.

ST. LOUIS, MO.—The 12th St. Realty Co. is preparing to erect a new building, to cost $80,000. I. S. Taylor, Arch.——The Norwell-Shapleigh Hardware Co. will soon let contracts for a building at Third, Fourth and Washington Sts., to cost $250,000. Weber & Groves, Archs.——Eames & Young have completed plans for a 6-story office building at 7th and Locust Sts., to cost $100,000.

ABILENE, TEX.—The Secretary of the Treasury has awarded to John Bardon, of Fort Worth, the contract for the superstructure of the public building at Abilene, at $79,313.

WACO, TEX.—The trustees of the Baylor University have adopted plans for a 3-story science hall to cost about $60,000. It will be 135 × 96 ft., and is the donation of Geo. W. Carroll.

TACOMA, WASH.—Bids are asked until Sept. 3 for the installation of plumbing and sewerage work in the new state capitol building and annex. W. A. Ritchie, Arch.

LOS ANGELES, CAL.—The county supervisors are considering enlarging the courthouse. The cost of the new building and the conversion of the old jail together with additional heating plant will cost about $200,000.

RIVERSIDE, CAL.—Local papers state that plans have been completed and work will commence soon on the new office building for the Riverside Water Co., to be located at Main and Sixth Sts. The building will be 40 × 50 ft.

SAN FRANCISCO, CAL.—A 5-story apartment house will be erected for the Schmiedell Estate Co. on Post and Jones Sts. It will cost about $75,000.

ANTHER, N. W. T.—Bids are asked until Aug. 24 for the erection of a brick and stone school house. T. C. Stinson, Secy.-Treas.

WATER-WORKS.

BROCKTON, MASS.—City Engineer Felton has submitted estimates for a new water supply to cost $485,000, or with a reservoir for furnishing water to Cary Hill and Brockton, $700,000. Horace Kingman, Supt.; F. B. Gardner, Clk. Bd. Water Comrs.; Desmond Fitzgerald, Consult. Engr., Boston, Mass.

BRIDGEPORT, CONN.—The Bridgeport Hydraulic Co. will soon have under way work costing about $400,000 for the proposed improvement of the water supply for Fairfield and Southport. There will be a reservoir, a 4,000,000-gallon pump, 24 and 30-in. mains, etc., most of the contracts for which are said to be already let. Chas. Sherwood, Pres.

ALFRED, N. Y.—The question of building works to cost about $20,000 is again being considered, and the question of issuing bonds will be voted upon Sept. 17.

BATH, N. Y.—The committee has reported in favor of buying the works of the Bath Water Co. for $46,292.

BOLIVAR, N. Y.—An election was held Aug. 20 to vote on the question of buying the works of the Bolivar Water Co. for $17,500.

CANAJOHARIE, N. Y.—Johnson Bros., of Millersburg, Pa., have applied for a franchise for works.

CARTHAGE, N. Y.—Eaton & Brownell, Engrs. and Archs., Carthage, write us that surveys for a water supply to be brought by gravity from the sand foot hills of the Adirondacks, a distance of 14 miles, to replace the present pumping plant. It is intended to secure a supply for 12,000 people.

CORINTH, N. Y.—The works of the Dunn Water Supply Co. has been purchased by the city for $43,800.

GLENS FALLS, N. Y.—D. V. Brown has been awarded the contract at $5,827 for an addition to the storage dam.

KENMORE, N. Y.—This place has voted on the question of issuing $20,000 in bonds for laying water mains and securing its water supply from Tonawanda.

NASSAU, N. Y.—A. A. Gardenier, of Schodock, N. Y., is making surveys for works.

NEW BERLIN, N. Y.—Bids are asked until Aug. 31 for repairing the reservoir, advertised in our issue of Aug. 8. Postponement from Aug. 21. E. F. Musson, Engr., Norwich, N. Y.

NEW YORK, N. Y.—Bids are asked until Aug. 29 for furnishing double-nozzle case hydrants, stop-cocks and stop-cock boxes, and for driving four 10-in. wells and placing pumps, etc., at the Tottenville pumping station. S. I. Wm. Dalton, Comr. Water Supply.

OSWEGO, N. Y.—Street, Wyckes & Co. have submitted a proposition to the city, offering to sell the works of the Oswego Water Co. for $475,000, provided the sellers may reserve the use of the high dam power.

SYRACUSE, N. Y.—The council has abandoned for the present the question of issuing $100,000 in bonds for water meters. The matter of building intercepting sewers will be taken up first.

EAST ORANGE, N. J.—The council is considering a proposition to purchase the works of the city of Orange, with a view to secure a sufficient supply.——The council has adopted a resolution authorizing the water committee to prepare plans for a distributing system, and to arrange for asking for bids. Address Mayor Stetson.

LONG BRANCH, N. J.—The Tintern Manor Water Co. has acquired the Long Branch Water Supply Co., the Deal Water Co., the Seabright Water Co., and the Middletown Water Co., all having works in operation except the latter concern, which has merely a franchise. A new central plant, to take the place of all the present plants, with a capacity of 25,000,000 gallons daily, is under construction at Swimming River, near Red Bank, and will be completed early next spring. The territory now served extends from Long Branch as far south as Deal Beach, but it is expected next year to supply Allenhurst and possibly Asbury Park as well. The Tintern Co. was incorporated Nov. 17, 1899, with $2,000,000 stock, all outstanding. Its general office is at Eatontown, N. J. Pres., Jos. J. Jermyh, Scranton, Pa.; Vice-Pres., Rufus Blodgett, Long Branch; Treas., John L. Wentz, Scranton.

NEWARK, N. J.—Stewart & Abbot, Times Bldg., New York, have been awarded the contract for building the Cedar Brook reservoir at $581,217, the itemized bids being published last week. This firm is composed of the firms of Jas. Stewart & Co., of St. Louis, Mo., and the Abbot-Gamble Contracting Co., of New York.

NORTH PLAINFIELD, N. J.—N. B. Smalley, Mayor, is again urging the construction of municipal works, the water supply to be secured from Green Brook.

CHESTER, PA.—A charter has been applied for by the Enterprise Water Co., of Delaware county, to supply water in Upper Darby township. Those interested are: Henry Vahle, Clifton Heights, Pa.; Robt. H. Hood, Darby, Pa.; Jos. S. Vanzandt, Lansdowne, Pa.; Geo. S. Brewes, Colwyn, Pa., and Edward E. Kirk, Yeadon, Pa. The same parties will apply at the same time for charters for the People's Water Co., of Delaware county, to supply water in Haverford township, and for the Marple Water Co., to supply water in Marple township.

DENVER, PA.—The Burgess writes us that no further steps towards securing the proposed works have been taken since the town voted the money; pop., 800.

FRACKVILLE, PA.—The Frackville Water Co. has applied for a franchise.

MIDDLEBURG, PA.—Howard G. Frederick, of Millersburg, Pa., has submitted a proposition to build works for this place.

OAK GROVE, PA.—The Clinton Water Co. has applied for a charter to build works for this place, this being the third company which wishes to supply water to this town. B. E. Staples and R. C. Quiggle are interested.

PHILADELPHIA, PA.—Local papers state that the next contract to be made by the city is for filter beds at Torresdale of a daily capacity of 100,000,000 gallons. There are to be 55 beds covering 38.5 acres. There is room for a plant to filter 300,000,000 gallons a day, and all future extensions of the system will be made there, and the underground conduit that is to take the filtered water by gravity to the pumps at Lardner's Point is calculated to carry that quantity daily. Bids on these filters are likely to be asked for within a few days. Director Haddock has not yet awarded the contracts for the supplying of sand for the filter beds at Upper and Lower Roxborough. There were only two bidders—Daniel J. McNichol, who has the contracts for erecting the filter beds into which the sand is to go, and the National Contracting Co., which is understood to represent John M. Mack. Bids were asked for six sizes of gravel, the smallest size to go through a screen with meshes 14 to the inch and to be retained by a screen of 20 meshes to the inch, and the largest size to go through a 3-in. mesh and to be stopped by a 1¾-in. mesh. The Mack Co. offers to supply gravel at prices ranging from $4.50 to $4.75 per cu. yd., the lower price being for the largest size. McNichol's figures range from $4.60 to $4.90. Mack offers sand at $3.50 and McNichol at $3.65 per cu. yd. It is estimated that about 60,000 yds. of sand and gravel will be required for the two Roxborough filters, about one-fourth of this quantity being gravel, principally of the larger sizes. The principal bids are, however, lump sums, including the terra cotta collecting pipes that are laid on the floor of the filter beds, and the prices per yard are for only 10 cu. yds. of each of the sizes. The engineers prepared three plans for the placing of the gravel and sand in the Lower Roxborough plant, which is to be the first one in operation. Two of the five beds are to be arranged in one way, two more in another style and the fifth in still different manner. On "Plan A" the National Contracting Co. bid $33,068 and McNichol $34,-

555. On "Plan B" the National's figures were $33,516, and McNichol's $36,248, while on "Plan C," for one bed, their estimates respectively are $16,279 and $17,891. The Upper Roxborough beds are to be filled according to which ever of the three plans is finally determined upon, the National Contracting Co.'s prices ranging from $167,543 to $171,825, and McNichol's from $179,249 to $179,656. For sand-washing apparatus at the Lower Roxborough plant the respective bids of the Mack concern and McNichol are $9,225 and $9,500.

PITTSBURG, PA.—The council on Sept. 9 will probably authorize E. M. Bigelow, Dir. Pub. Wks., to proceed to let the contracts for constructing the filtration plant. The Pennsylvania Drilling Co. has been awarded the contract at $2 a ft. for drilling in the bed of the Allegheny River to ascertain whether or not a tunnel can be driven through it.

VERONA, PA.—Bids are asked until Aug. 21 for 12,000 ft. of 12 and 4-in. water pipe for the Suburban Water Co. Frease & Sperling, Engrs.

YORK, PA.—The York Water Co. is considering the question of increasing its capital stock from $750,000 to $1,500,000, part of which increase will be used for improvements.

GEORGETOWN, DEL.—The question of works and an electric plant is being considered.

LEWES, DEL.—Harry A. Miller, of Wilmington, Del., has been awarded the contract at $36,173 for constructing works and a sewerage system. The other bids were: C. W. Johnston, Lewes, Del., $39,195; Hite-Smith & Co., Norfolk, $37,033; Wm. H. Church & Co., $39,087.

FROSTBURG, MD.—The council proposes to build a reservoir, 100 × 100 ft.

BLACKSTONE, VA.—An election will be held Sept. 10 to vote on the question of works.

CAMERON, W. VA.—J. G. Crawford, C. G. Fish and Chas. Lancaster have been appointed a committee to investigate the question of issuing bonds for works.

HUNTINGTON, W. VA.—Subscriptions for stock in the Citizens' Water Co. are reported as being secured. Capital $100,000. J. L. Hawkins, G. A. Northcott and J. T. Wilson are interested.

MOUNDSVILLE, W. VA.—The Moundsville Water-Works Co. is again making an effort to secure a water supply.

SPENCER, W. VA.—Bids were asked by the trustees of the Spencer State Hospital until Aug. 20 for a reservoir, etc.

PARSONS, W. VA.—The Parsons Water Co. has let contracts for works, to cost about $20,000. Robt. Roe, Jr., Pres.

ASHEVILLE, N. C.—T. W. Patten, Secy. Water Com., writes us that the committee's report was made July 12. The government expert reports a flow measured to be 30,000,000 gallons a day. Committees have been appointed to continue tests to locate experimental line of pipe, etc.

MONTEZUMA, GA.—Judge Littlejohn has decided that the bonds recently voted by this place for works are valid and the town may proceed to build works.

STARKE, FLA.—E. P. Duncan, Secy., writes us that specifications for works will not be prepared until a source of water supply is secured. Pop., 1,200. Collier & Brown, Engrs., Atlanta, Ga.

COVINGTON, LA.—The question of works is being considered, according to reports.

GREENWOOD, MISS.—C. E. Wright, of this place, has been granted a 25-year franchise for works, sewers and an electric plant.

MERIDEN, MISS.—The question of municipal works is being considered. Address G. M. Meirs and Frank Lloyd.

SARDIS, MISS.—An election will soon be held to vote on the question of works to cost about $18,000. E. C. Howry, J. B. Boothe and W. D. Wall compose the committee.

CLEVELAND, TENN.—An election will be held Sept. 2 to vote on the question of issuing $55,000 in bonds for the purchase of the works of the company.

LOUISVILLE, KY.—The Louisville Water Co. proposes to extend the 12-in. main to South Louisville, at a cost of about $12,000. C. R. Long, Pres.

COLUMBUS, O.—Acting Superintendent O'Shaughnessy, of the water-works, is urging as a solution of an increased water supply at the west side station the construction of the storage dam. He says that this ought to be built, and if enough money is not available at this time that a part of the dam should be built as soon as possible. Mr. O'Shaughnessy also favors connecting the east and west side stations with a 35 or 42-in. main, running out Long St. This, he believes, will equalize the pressure and improve the service. Bids for these improvements will soon be wanted. The sinking of 50 new wells is also proposed.

ELYRIA, O.—Albert E. Hay is reported as interested in a project to build works to cost about $300,000.

GLENVILLE, O.—The question of the erection of a water pumping station to supply Glenville, Collinwood and Nottingham is being agitated. The above villages are suburbs of Cleveland, O., and are at present receiving their water supply from that city. The amount supplied is said to be inadequate, the rates high, and the restrictions placed upon water users unfair. The intention is to place machinery with a capacity of 2,000,000 gallons per day, and erect same in duplicate. It has not as yet been decided whether stand-pipe or direct pressure will be used. Address F. J. Denzler, Hazeldell Ave., Glenville.

IRONTON, O.—The question of issuing $75,000 in bonds for works will soon be voted upon.

MIAMISBURG, O.—The Home Water Co. has engaged an engineer to make surveys for works. N. J. Catrow, W. J. Kauffman and W. A. Mays.

NILES, O.—An election will be held Aug. 29 to vote on the question of issuing $5,000 in 5% bonds for extending the works.

PAULDING, O.—H. E. Spring, Mayor, writes us that no action has yet been taken by the village council in the matter of building works. Pop., 2,500.

PLYMOUTH, O.—J. W. Webb, Cy. Engr., writes us that this place has voted to issue $20,000 in bonds for works. The bonds will be sold in October. The water supply will be secured from artesian wells. Pop., 1,500.

WELLSVILLE, O.—The proposed gravity works for this place will cost about $131,000, according to reports.

CANNELTON, IND.—This place has purchased the works of the water company for $18,900.

HAMMOND, IND.—The Lake City Water Co. has been incorporated with a capital of $35,000 by Thos. Hammond, H. M. Bicknell and E. E. Jewett to build works to cost about $200,000.

HOWELL, IND.—The question of works is being considered.

GRAND RAPIDS, MICH.—At the November election this place will vote on the question of securing a new water supply from the Bailey Springs at a cost of about $300,000. Address City Engineer Anderson.

HOLLAND, MICH.—The council is considering the question of extending the works and electric plant at a cost of about $60,000. Address Mayor Buisse; A. Vischer, Pres.

MARSHALL, MICH.—This place will vote Aug. 29 on the question of issuing $63,000 in bonds for improving the works and electric plant.

SAGINAW, MICH.—Bids are asked until Aug. 22 for such water pipe, hydrants, castings, etc., as may be required this season. H. E. Terry, Cy. Engr.

KEWANEE, ILL.—Bids are asked until 2 p. m., Aug. 23, for 1,000 ft. of 6 and 4-in. mains, 900 lbs. of specials, etc. J. E. Shepardson, Cy. Engr.

MACKINAW, ILL.—Jacob A Harmon, of Peoria, Ill., has been awarded the contract at $4,494 for constructing works.

SEARS, ILL.—A committee is investigating the question of works to cost $7,000. C. H. Dibbern, Chn.

STONINGTON, ILL.—The question of building works will probably soon be voted upon.

EVANSVILLE, WIS.—The Water, Light & Power Co. has been incorporated with a capital of $10,000 by Fred. E. Colony, W. H. H. Johnson and J. P. Porter.

NORTH MILWAUKEE, WIS.—The question of works, the water supply to be secured from Milwaukee, is being considered. A. L. Dayton and Aug. Loth are on the committee.

STANLEY, WIS.—Bids are asked until Aug. 29 for constructing works and a sewerage system. A. N. Patitz, Consult. Engr., Wilwaukee, Wis.; H. A. Cummins, Cy. Clk.

GRAND MEADOW, MINN.—This place is reported to have voted to build works.

HENDRICKS, MINN.—Bids are asked until Sept. 3 for works, to include 75 tons of pipe, gasoline engine, pump, well, steel towers, tank, etc. J. J. Flather, Engr., Minneapolis; R. M. Burlingame, Recdr.

ST. CLOUD, MINN.—The council has decided to take steps to annul the franchise of the St. Cloud Water Co.

WEST MINNEAPOLIS, MINN.—Bids are asked until Sept. 2 for constructing works. E. A. Close, Recdr.

CHARLES CITY, IA.—The committee is reported to have reported in favor of an artesian well water supply.

DES MOINES, IA.—The park board is arranging for the construction of a dam, etc., across the Des Moines River.

CLIFTON, KAN.—S. H. Hamilton, Mayor, writes us that the proposed works will consist of 1,000 ft. of 6-in. mains, tank or stand-pipe, gasoline engine, pump, etc. The water supply to be secured from wells. Pop., 1,000.

COFFEYVILLE, KAN.—E. H. Richardson, Cy. Engr., writes us that it is proposed to build 2½ miles of 10-in. main and three miles of 6 and 4-in. pipe.

LEAVENWORTH, KAN.—Mayor Ryan is taking steps towards securing the municipal ownership of the works, and an election will soon be held to vote on the question.

NADEAU, KAN.—Bids are asked until Sept. 6 for constructing works and a sewerage system at the Pottawatomie Indian School. W. A. Jones, Indian Comr., Washington, D. C.

STAFFORD, KAN.—J. P. H. Dykes, Mayor, writes us that the city is talking of putting in works. Dr. Rose has a franchise for lights. Pop., 1,000.

ARCADIA, NEB.—G. H. Kinsey, Trustee, writes us that nothing has yet been done towards securing works, nor have definite plans been settled upon. Pop., 500.

LINCOLN, NEB.—Geo. L. Campen, Cy. Engr., writes us that a mistake was made in our issue of Aug. 8 in which it was stated that a contract to pump water for the city at 10 cts. per 1,000 gallons had been made with Jos. Burns. The latter made a proposition to the council to pump the water, but the legal department of the city advised the council that such a contract could not be entered into without first submitting the question to a vote of the people. Mr. Burns has withdrawn his proposition.

NELIGH, NEB.—This place has voted to issue $3,000 of 5% bonds for extending the works.

BROOKINGS, S. DAK.—Fairbanks, Morse & Co., St. Paul, Minn., have been awarded the contract for works at $36,432, excepting the powerhouse and chimney, which have been let to J. B. Nelson & Co., of Mankato, Minn., at $4,993, and the steel tower and tank, let to the Chicago Bridge & Iron Works at $7,494.

PARK RIVER, N. DAK.—Allen, Block & Co., Minneapolis, have been awarded the contract at $2,100 for works and an electric plant.

ROCK SPRINGS, WYO.—A company is being organized to build 25 miles of gravity pipe line from Ham's Fork to supply this place, Kemmerer and Diamondville and the nearby coal mines with water; estimated cost, $250,000.

EL DORADO SPRINGS, MO.—Plans and specifications are being prepared for works and a sewerage system. Burns & McDonnell, Consult. Engrs., 409 Postal Telegraph Bldg., Kansas City, Mo.

KAHOKA, MO.—Bids are asked until Aug. 28 for furnishing the materials, etc., and for building works and an electric plant. Geo. C. Morgan, 808 Royal Insurance Bldg., Chicago, Ill.; G. W. Henry, Cy. Clk.

KANSAS CITY, MO.—Alderman L. Eloyne writes us that it is probable that the ordinance to submit to the people on Nov. 5 a proposition to issue $250,000 in bonds for the proposed improvements to the works will be passed early in September. D. W. Longwell, Supt. A report states that it is intended to employ an expert to report on the proposed improvements. Harry B. Walker, Secy. Bd. Pub. Wks., writes us that Jas. Cotter, 923 E. 12th St., submitted the lowest bid at $44,365 for furnishing and laying 5,700 ft. of 30-in. water mains.

ST. LOUIS, MO.—The National Gas, Water & Power Co. has asked for a franchise to lay mains and operate in the county. Capital stock, $20,000. Geo. A. Gable, Pres. The World's Fair Water, Light & Power Co., the Aerial Mfg. Co., and a company in which J. M. Nelson, Jr., and John L. Green are interested have also applied for similar franchises.

HARRISON, ARK.—P. A. Maggard, Secy. Bd., writes us that surveys and estimates for works and a sewerage system are being made. Pop., 2,000. Rees Bros., Engrs., Fayetteville, Ark.

WAGONER, IND. TER.—This place will vote Aug. 31 on the question of issuing $100,000 in bonds for works and sewerage system.

WACO, TEX.—Chester B. Davis, 10 Wall St., New York, is preparing a report for an increased water supply.

KAUFMAN, TEX.—G. G. Shaw, Mayor, writes us that the council has not yet set a time for opening bids for works. Pop., 3,000.

WHARTON, TEX.—Capt. Wm. Payson has submitted a proposition to build works, an electric plant and an ice plant.

WILLS POINT, TEX.—John W. Maxcy, of Houston, Tex., has been awarded the contract at $35,[illegible] for constructing works.

GUTHRIE, OKLA. TER.—T. A. White, Cy. Engr., writes us that prospect boring has commenced and work on permanent wells will probably begin Sept. [illegible]

LAWTON, OKLA. TER.—Reports state that two companies have been formed to build works, but it is understood that the town intends to build its own works.

COLORADO SPRINGS, COLO.—E. W. Case, Cy. Engr., writes us that the city recently let contracts for about 4½ miles of 4 to 12-in. mains and five miles of 8 to 12-in. pipe sewers.——Local papers state that the question of building the Seven Lakes reservoir is being considered.

LONGMONT, COLO.—Bids are asked until Sept. 20 for furnishing the materials and for constructing works, as described in our advertising columns. Geo. H. Stoney, Cy. Clk.

VICTOR, COLO.—J. J. McCarthy, Supt., writes us that the city has acquired additional reservoir site of 450,000,000 gallons capacity. The work will include 7,000 ft. of wooden pipe to new site, a dam 600 ft. long, average height 8 ft., 4,000 ft. of 12-in. pipe, etc. J. G. Greene, Des. Engr., Pueblo, Colo.

ELLENSBURG, WASH.—The question of works is reported as being considered.

SEATTLE, WASH.—New bids are asked by the board of public works for a wood-stave water pipe.

TACOMA, WASH.—John Holgate, Chn. Water Com., has presented a plan for improving the works, to include a 30,000,000-gallon reservoir, etc. The cost is as follows: Pumping station at Maplewood, $40,000; line from Maplewood to proposed reservoir, $40,000; reservoir, $40,000; line from reservoir to stave pipe line, $100,000.

MYRTLE POINT, ORE.—This place is reported to have voted for works.

PASSADENA, CAL.—Mayor Weight writes us that no decisive steps have yet been taken toward securing new works, but it is hoped to do so soon. Many street improvements are proposed. T. D. Allin, Engr.

SAN JOSE, CAL.—Bids are asked until Sept. 2 for boring an artesian well. T. S. Montgomery, Secy., 7 W. Santa Clara St.

QUEBEC, QUE.—Bids are asked until Aug. 27 for furnishing 16,000 ft. of 14 to 6-in. water pipe, according to reports. J. Gallagher, Supt. Water-Works.

SEWERAGE.

PORTLAND, ME.—Bids are asked until Sept. 3 for constructing about 1,120 ft. of brick sewer, as stated in our advertising columns. G. N. Fernald, Comr. Pub. Wks.

FRANKLIN, MASS.—This place will vote Aug. 26 on the question of building a system.

SPRINGFIELD, MASS.—H. W. Fitch, Chn. Com., writes us that Seymour & Newell have been awarded the contract at $8,702 for constructing the Hickory St. sewer. C. M. Slocum, Cy. Engr.

WOONSOCKET, R. I.—The council has voted an additional $29,600 for sewers.

CONCORD, N. H.—The council has voted $6,000 for the St. Paul school district sewer.

RIDGEFIELD, CONN.—Plans for a system prepared by Theo. H. McKenzie, of Southington, have been accepted. The committee consists of W. O. Seymour, Saml. Keeler and D. Smith Sholes.

SIMSBURY, CONN.—The Hartford Paving & Contracting Co. has been awarded the contract for building a system here. W. H. McKenzie, Engr., Southington, Conn.

KINGS PARK (L. I.), N. Y.—Bids are asked until Sept. 2 for constructing a sewage-disposal plant at the Long Island State Hospital. G. L. Heins, State Arch., Albany; A. E. Orr, Pres. Bd. Mgrs., Clinton and Montague Sts., Brooklyn, N. Y.

MOHAWK, N. Y.—This place has voted not to issue $25,000 in bonds for sewers, and another amount for paving and electric plant improvements. It is probable that another election will be held.

ATLANTIC CITY, N. J.—Bids are asked until Aug. 26 for constructing storm sewers, as stated in our advertising columns. J. W. Hackney, Cy. Surv.

CAMDEN, N. J.—The council has voted to issue $50,000 in bonds for new sewers. By mistake this item was printed last week under Camden, Pa.

MADISON, N. J.—An election will soon be held to vote on the question of issuing $75,000 in bonds for a sewerage system. The committee consists of Councilmen B. W. Burnett and W. T. Brown, C. E. Cook, Dr. I. N. Vandewater and Mayor Albright.

PLAINFIELD, N. J.—Bids are asked until Sept. 9 for furnishing the materials and for constructing about 4,000 ft. of pipe sewers, etc., as described in our advertising columns. A. J. Gavett, Engr.; Geo. B. Wean, Cy. Clk. pro tem.

WOODBURY, N. J.—E. P. Henry has been awarded the contract at $4,884 for sewage-disposal beds.

CANONSBURG, PA.—This place will vote Sept. 24 on the question of issuing $40,000 in bonds for a system.

MOUNT CARMEL, PA.—Isaac Kemble, Borough Engr., writes us that this place has voted to issue bonds for a system. Chester B. Davis, Engr., 10 Wall St., New York. W. H. Pensyl, Chn. Com.

NEWCASTLE, PA.—Irwin Bros., of Greenville, O., have been awarded the contract for $59,124 for constructing a main sewer. Other bids were: Ott Bros., Pittsburg, $84,000; James H. McQuaid, $73,895; J. B. Sheets & Co., $72,394; J. W. Mitchell, $63,414.50. The contract for the construction of the Big Run sewer was let to J. W. Mitchell at $3,053. Others were: Sheets & Co., $3,458; F. M. Mayberry, $4,193; A. W. Woods, $4,408; Irwin Bros., $8,954.

PHILADELPHIA, PA.—Bids are asked by the bureau of surveys until Aug. 27 for a number of branch sewers.

ROME, GA.—The question of a better sewerage system is being considered. C. H. Lavender, Chn. Com.

SHREVEPORT, LA.—The following bids were received by the Shreveport Water-Works Co. for building a sewerage system in Holmesville, Texarkana, Annex and Allendale: Guild & Co., of Chattanooga, Tenn., $97,260; J. S. Shea, St. Louis, $98,950; E. A. Burkhalter, Birmingham, Ala., $105,724.

OXFORD, MISS.—Bids were asked until Aug. 20 for the purchase of $20,000 of bonds for the proposed system, and for bids for constructing the same. Schuerman & Brown, Engrs., Nashville, Tenn.; R. S. Adams, Mayor.

KNOXVILLE, TENN.—It is proposed to extend the sewers to North Knoxville. T. J. Moreland, Cy. Engr.

PARIS, KY.—Bids are asked until Sept. 2 for constructing about three miles of sewers. Benj. Thompson, Engr., Chattanooga, Tenn.; D. C. Parrish, Chn. Com.

ASHLAND, O.—S. W. Hull, Clk., writes us that surveys for sewers and a sewage-disposal plant are being made.

GLENVILLE, O.—Bids are asked until Sept. 6 for storm sewers; check, $1,200. The Walter P. Rice Engineering Co., Cleveland, O.; I. C. Farley, Clk.

NEWCASTLE, IND.—W. H. Adams, Clk., writes us that the city will build over six miles of sewers. There will be a mile of 30 or 36-in. main sewer. Bids will be asked in about two months. L. K. Cook, Des. Engr.

WABASH, IND.—Bids are asked until Aug. 25 for 9,000 ft. of 12-in. pipe sewers. R. P. Woods, Cy. Engr.

CHARLOTTE, MICH.—Riggs & Sherman, of Toledo, O., have completed plans for a system.

DELRAY, MICH.—The council has been requested to only build a portion of the system instead of the entire plant, which is estimated to cost about $75,000. W. H. Ashwell, Engr., Detroit.

PAW PAW, MICH.—Bids are asked until Sept. 2 for constructing 13,677 ft. of sewers. L. C. Colburn, Engr., Paw Paw; W. H. Mason, Village Clk.

ROCHESTER, MICH.—Reports state that surveys for a system are being made.

FOND DU LAC, WIS.—John F. Blake has been awarded the contract at about $16,000 for building septic tanks in this place.

MERRILL, WIS.—Nelson & Harding, of Racine, Wis., have been awarded the contract for building sewers.

MILWAUKEE, WIS.—Robt. Forrestal has submitted the lowest bid at $39.40 a lin. ft. for constructing Sec. 3, about 1,200 ft., of the Kinnickinnic River flushing tunnel.

STANLEY, WIS.—Bids are asked until Aug. 29 for furnishing the materials and for constructing a sewerage system and water-works. A. N. Patitz, Consult. Engr., Milwaukee, Wis.; H. A. Cummins, Cy. Clk.

SAC CITY, IA.—Plans, etc., are being prepared for 2,600 ft. of sewers. A. Marston, Engr., Ames; T. F. Mansfield, Chn. Com.

MAPLETON, MINN.—Bids will be asked at once for constructing new sewers, according to reports.

MOUNT PLEASANT, IA.—We are informed that plans and specifications for a sewage-disposal plant for the Iowa Hospital for the Insane are being prepared by Prof. A. Marston, of Ames, Ia. The work will probably be done next year. C. F. Applegate, Supt.

BOZEMAN, MONT.—Jos. Ryan, of Butte, Mont., has been awarded tthe contract at $12,000 for building sewers.

GREAT FALLS, MONT.—The council has rejected the bids recently received for constructing the 6th and 7th Aves. north sewer, according to reports.

WAGONER, IND. TER.—An election will be held Aug. 31 to vote on the question of issuing $100,000 in bonds for a system and water-works.

SHERMAN, TEX.—E. M. Kearney, City Secy., writes us that Block & Laird, of Kansas City, Mo., have been awarded the contract for building a system to cost about $71,271. Other bidders were: T. J. Shea, Quincy, Ill.; M. P. Kelley, Gainesville, Tex.; Humphreville & Neater, Houston, Tex.

POMONA, CAL.—The city trustees will soon ask for bids for constructing sewers to cost $50,000.

SAN LUIS OBISPO, CAL.—Bids are asked by City Engineer Storey until Aug. 26 for constructing new sewers.

VACAVILLE, CAL.—The trustees will at once issue $30,000 in bonds for a system.

GARBAGE DISPOSAL—STREET CLEANING

NEW YORK, N. Y.—The Stanley Sanitary Garbage Disposal Co. has been incorporated with a capital of $50,000 by J. C. W. Stanley and A. P. Nevin.

ALLENTOWN, PA.—Reports state that the following bids were received Aug. 6 for a crematory: Dixon Garbage Crematory Co., Toledo, O., steel-shell crematory, with a furnace 38 ft. long, 8¼ ft. wide and 9¾ ft. high, 25 tons capacity a day, $13,950 with steel stack, $14,550 with part steel and part brick stack, $15,585 for full brick stack, building included; Bridgeport Boiler Works, Bridgeport, Conn., Smith two-crib crematory, with steel stack, 100 ft. high, 20 to 25 tons capacity, $6,550, with brick stack $7,400, without building; wooden building, $2,000, or brick, $4,150.

WILMERDING, PA.—The question of building a crematory is being considered. Address Councilmen W. A. Smyth, Jas. Waddell and A. H. Weaver. Trimble & Miller, Engrs.

WASHINGTON, D. C.—The following bids were received by the Supervising Architect, Treasury Dept., Aug. 9, for a crematory at the Cape Charles quarantine station, Va.: Jos. F. Griffith, Lewes, Del., $987.50; time, 60 days; E. Morgan, Newport News, Va., $2,960; time, 80 days; Wm. H. Virden, Lewes, Del., $1,200; time 100 days.

HAMILTON O.—Bids are asked until Sept. 10 for furnishing and constructing a crematory of 20 tons capacity a day. M. O. Burns, Clk. Bd. Trustees.

TOLEDO, O.—Mayor Jones is urging the council to build two crematories at a cost of $20,000.

YOUNGSTOWN, O.—The Youngstown Garbage Co. has been incorporated with a capital of $10,000.

KALAMAZOO, MICH.—Alderman F. N. Maus is said to have submitted a report in favor of building a crematory.

OAKLAND, CAL.—Bids are asked until Sept. 4 for sweeping and cleaning certain streets by machinery, etc., for the year ending June 30. R. F. Jackson, Secy. Bd.

TORONTO, ONT.—Street Commissioner Jones has made a report that the garbage-disposal plant, after 11 years' service, is worn out, and must be renewed.

STREETS AND ROADS.

BURLINGTON, VT.—It is stated that new bids will be asked by the street commissioners for macadam paving in Colchester Ave., to cost about $7,000.

BOSTON, MASS.—Bids are asked until Aug. 22 for 6,000 ft. of highway in Mattapoisett, and in Methuen. W. E. McClintock, Chn. Mass. Highway Comrs., Boston.

FITCHBURG, MASS.—David A. Hartwell, Cy. Engr., writes us that Elm St. has been mapped out, but that it will not be constructed at present owing to the removal of buildings.

WHITE PLAINS, N. Y.—Eidert & Johnnecht, of Patchogue and Jamaica, N. Y., are reported to have been awarded the contract at about $70,000 for eight miles of macadam roads.

NORTH BRANFORD, CONN.—This place has voted to issue $9,000 in bonds for road improvements.

WHITE PLAINS, N. Y.—Bids are asked until Sept. 3 for macadam paving, etc., as stated in our advertising columns. B. F. Darling, Village Engr.; W. B. Sutherland, Clk.

OSBORNE, PA.—Bids are asksd until Aug. 22 for grading and macadam paving. McDonald & Andrews, Engrs., 813 Penn Bldg., Pittsburg.

PHILADELPHIA, PA.—Bids are asked until Aug. 28 for grading, brick and asphalt paving, building sewers, etc., in a number of streets. Wm. C. Haddock, Dir. Dept.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Sept. 7 for improving Connecticut Ave., as stated in our advertising columns.

MADISONVILLE, TENN.—T. F. Pack, Editor "Our County Citizen," informs us that the last legislature authorized the county to issue bonds to the amount of $100,000 for building pikes. The county court is divided, but sentiment in favor of the pike roads is growing, and it is hoped that the court will issue the bonds during the year.

CARROLLTON, KY.—Bids are asked until Aug. 31 for two miles of macadam paving. R. L. Bond, Pres. McCann Road Turnpike Co.

ASHTABULA, O.—Bids are asked until Aug. 31 for shale block paving in High St., as stated in our advertising columns. F. M. Wagner, Clk.

CONNEAUT, O.—G. B. Pike, Cy. Engr., writes us that it is probable that bids for 40,000 yds. of brick paving, to cost $65,000, will be received Sept. 23, and for constructing sewers about Oct. 6 or 10.

FINDLAY, O.—Bids are asked until Sept. 5 for brick paving, grading, etc. F. C. Ray, Cy. Clk.

WYANDOTTE, MICH.—Wm. Campbell, Mayor, informs us that nothing has yet been done in regard to paving matters, but the proposition will probably be submitted to the people at an early date for both paving and sewers.

WABASH, ILL.—Bids are asked by the highway commissioners until Aug. 27 for considerable gravel road work.

MILWAUKEE, WIS.—Bids are asked until Aug. 27 for sidewalks, etc., in a number of streets. C. J. Poetsch, Cy. Engr.

ST. PAUL, MINN.—Bids are asked by the board of public works until about Sept. 15 for asphalt paving in Jackson St.

DES MOINES, IA.—Bids are asked until Sept. 5 for 1,922 yds. of brick paving. G. A. Eberhart, Chn. Bd. Pub. Works.

GUTHRIE, OKLA. TER.—We are informed that prices are wanted for furnishing 1,000,000 or more brick for sidewalk and curb; state price f. o. b. Guthrie, and enclose stamp for reply. T. A. White, Cy. Engr.

MANUFACTURING PLANTS.

LEWISTON, ME.—Reports state that the Brompton Pulp & Paper Co., capitalized at $500,000, has been organized by Auburn and Lewiston capitalists. Work has already been started on the new mill. George B. Bearce, Pres., Lewiston.

RUTLAND, VT.—The Rutland-Florence Marble Co. will build a large mill at either West Rutland or Pittsford.

NEW YORK, N. Y.—Nikola Tesla, the electrician, is reported to have closed a contract for the erection of a plant at Warrenclyffe, on the Sound, for the principal station of his wireless telegraphy system. The total cost of the plant and furnishings will be about $150,000.

RAYMONDVILLE, N. Y.—The Raymondville Paper Co. has been incorporated at $125,000, and will erect a steel and concrete plant on the Racquette River, near Massina.

MONESSEN, PA.—The local tin-plate plant will be greatly enlarged. The additions will cost about $750,000, and will cover about 13 acres of land.

NEWCASTLE, PA.—The directors of the Hartman Mfg. Co., of Ellwood City, have approved plans for the erection of a steel and wire plant at this place. Contracts for all the new buildings and equipment are reported to have been let, and work will be completed as soon as possible. The plans include the erection of an open-hearth furnace, rod mill, wire drawing and galvanizing plant, and a nail mill with a capacity of 12,000 kegs per day. When completed, the new plant will employ about 2,000 men.—The Pennsylvania Engineering Works has announced that the capital stock of the company has been increased from $150,000 to $225,000. The company expects to spend $25,000 out of this for enlarging and improving the plant.

PITTSBURG, PA.—The Windesch-Muhlhauser Brewing Co. is having plans prepared for a new 7-story brick and iron brew house, to have a daily capacity of 1,000 barrels. The improvement will cost $300,000.

PITTSBURG, PA.—Application has been made for a charter for the Carnegie Sheet Iron Co., which is planning to establish a sheet steel mill at Carnegie. The incorporators are R. G. Gillespie, W. H. Skivington and Jos. R. Paull.—Tate, Jones & Co., Pittsburg, have purchased a site west of Leetsdale, and will erect a new plant. The new plant will include a machine shop, foundry and heavy plate and sheet mills. J. M. Tate, Jr., Pres.

FRANKLIN, KY.—T. W. Stringer, of this city, will erect an ice plan here this month, according to reports.

EAST LIVERPOOL, O.—The Dresden Pottery, valued at $100,000, was destroyed by fire on Aug. 17.

CHICAGO, ILL.—Contracts have been let by the Ludowici Roofing Tile Co. for the erection of an additional factory building and continuous kiln, the betterments to cost $50,000.—Huehl & Schmid, Archs., have completed plans for the works of the Columbia Enameling & Stamping Co., to be built at Terre Haute, Ind. The plant will comprise four buildings: a 4-story warehouse, a 2-story stamping department (140 × 60 ft.), a 1-story annealing room (260 × 281 ft.), and a power house (110 × 50 ft.). The cost will be $200,000.

DULUTH, MINN.—Timbush & Hill, Archs., have completed plans for a large carriage factory to be built by Samuel G Stokes, of Philadelphia. Bids will soon be asked.

WICHITA, KAN.—The directors of the Dold Packing Co. have decided to rebuild the plant in this city, recently destroyed by fire.

WICHITA, KAN.—Walterscheid Bros., pump manufacturers of this city, will erect a large addition to their factory, for which the contract has been let to Dennet & Blakeman.

NEVADA, MO.—A. Daly, a local contractor, has received a contract for building the Choctaw, Oklahoma & Gulf Ry. shops at Shawnee, Okla., to cost $75,000.

FORT WORTH, TEX.—It is reported that Armour & Co. and Swift & Co. will co-operate in the development of the live stock industry in the great Southwest, and will erect modern packing plants in this city, at a cost of $1,000,000, employing at least 1,000 men. The arrangements have been finally perfected. G. W. Simpson, Pres. Fort Worth Stock Yards Co., is a party to the contract.

SHERMAN, TEX.—The organization of the Artesian Ice & Cold Storage Co. has been perfected. The capital stock is $50,000, and the capacity of the plant will be 50 tons daily. B. L. Fielder, Pres., and R. S. Dorchester, Secy.

ST. LOUIS, MO.—The two buildings owned by the Hafner & Lotham Mfg. Co. were destroyed by fire on Aug. 10, entailing a loss of $150,000.

ASTORIA, ORE.—Local papers state that a clam cannery will be established at South Bend, Wash., by B. H. Burpee, of Portland, Ore., and associates. It will cost about $40,000.

LOS ANGELES, CAL.—The Los Angeles Sugar Co. is reported to have been incorporated with a capital stock of $3,000,000, and, it is stated, will begin work in 90 days on the erection of a $600,000 beet sugar factory at a point in the south end of Antelope Valley, yet to be chosen. Wm Elliot Smith, Pres., Alton, Ill.

PETERBORO, ONT.—The Canadian Cordage & Mfg. Co. has been presented with a site by this town and will erect a $60,000 building.

MISCELLANEOUS CONTRACTS.

CAUSEWAY.—Oakland, Cal.—City Engineer Turner has completed plans for a causeway, to cost about $75,000.

CANAL.—Redwood, Miss.—Bids are asked until Sept. 2 for digging a canal near Redwood. J. D. Loughlin, Clk.

TELEPHONE SYSTEM.—Logansport, Ind.—The St. Joseph County Telephone Co., of Fort Wayne, Ind., has applied for a franchise.

MINING.—Charlottesville, Va.—The Reigart Mines, 6 P. O. Bldg., Charlottesville, are soliciting capital for developing their quartz mines.

BRICK MACHINERY.—Scranton, Pa.—Geo. Moffat, Civil Engrs., 516 Connell Bldg., Scranton, wishes the addresses of firms making brick machinery.

DOCK, ETC.—Collingwood, Ont.—Bids are asked at once by the Cramp Steel Co., 608 Temple Bldg., Toronto, Ont., for constructing a dock and approaches.

TUNNEL.—Benton Harbor, Mich.—The Indiana, Illinois & Iowa Ry. Co. is said to be interested in the proposed tunnel under this city, to cost about $80,000.

DREDGING.—Savannah, Ga.—Bids are asked until Sept. 16 for dredging in Savannah Harbor, as stated in our advertising columns. Capt. C. E. Gillette, U. S. Engr.

SEA WALL, ETC.—Des Moines, Ia.—The park commissioners have accepted the plans of Swain, Nelson & Sons, of Chicago, Ill., for sea walls, terrace, etc., along the river banks.

HARBOR WORK.—Milwaukee, Wis.—Mayor Rose has asked the council to appropriate $100,000 to aid in the proposed improvements to the harbor. G. H. Noyes, Chn.

SURVEY.—North Salem, N. Y.—Bids are asked by the Connecticut Construction Co., Danbury, Conn., for a topographical survey of about 250 acres, as stated in our advertising columns.

DREDGING PLANT.—Baltimore, Md.—Plans for the proposed city dredging plant at Lock Raven, to cost about $200,000, have been completed, and work on its construction will soon be begun.

BEACON.—Hillsboro Bay, Fla.—Bids are asked until Sept. 18 for constructing two beacons in Hillsboro Bay, as stated in our advertising columns. Col. A. N. Damrell, U. S. Engr., Mobile, Ala.

REPAIRING WHARF.—Delaware City, Del.—Bids are asked until Sept. 17 for repairing the wharf at Fort Du Pont, as stated in our advertising columns. Address Constructing Q. M., U. S. A., Delaware City.

DREDGING.—Ontario.—Louis Coste, Supt. and Engr. Public Works Dept., Port Colborne, Ont., is making surveys for dredging, etc., of the north channel of the Georgian Bay and improving the French River.

DRY DOCK.—St. John, N. B.—Reports state that the construction of a wooden or concrete dry dock will be begun inside of two months. Geo. Rubertson, M. P., St. John, is interested. John Kennedy, Des. Engr., Montreal, Que.

HEATING SYSTEM.—Detroit, Mich.—The Detroit Yarman Co. has asked for a 30-year franchise for building and operating a heating system in Detroit, and also an electric plant, if necessary. The heating plant is to be in operation by Oct. 1, 1902.

COAL-HANDLING PLANT.—Ward's Island, N. Y.—Bids are asked until Aug. 26 for a coal-handling plant at the Manhattan State Hospital, Ward's Island. G. L. Heins, State Arch., Albany; H. E. Howland, Pres. Bd. Mgrs., 1 Madison Ave., New York.

OIL PIPE LINE.—Echo, Utah.—The Spring Valley Oil & Pipe Line Co., Cleveland, O., will begin work at once on its proposed pipe line and oil wells in Spring Valley, to cost about $500,000, according to reports. Refineries will be built at Evanston and Salt Lake City. Col. Matt. Dougherty, Mgr., Echo.

DREDGING, ETC.—Manitowoc, Wis.—The council committee has recommended the dredging to a depth of 21 ft. a channel in river at a cost of about $35,000. The council will abandon the proposed 640-ft. turning basin. The council has voted to build a protecting wall to be 1,200 ft. long; estimated cost, $5,000.

RIVER IMPROVEMENTS.—New York, N. Y.—Louis A. Risse, Chief Topographical Engr., Dept. of Highways, has designed an aquatic course 1½ miles long on the Hudson River from 99th St. to 129th St. It is proposed to construct a breakwater about 400 ft. from the shore and a promenade along the shore. The estimated cost of the work is about $1,650,000.

REMOVING WRECK.—Atlantic City, N. J.—We are informed that Lt. Col. C. W. Raymond, U. S. Engr., 815 Witherspoon Bldg., Philadelphia, received the following bids Aug. 12 for removing a wreck lying off Atlantic City: Van Sant & Boehm, Atlantic City, $7,416; Wm. H. Virden, Lewes, Del., $12,800; Enoch Townsend, Somers Point, Atlantic City, $8,479; Truxton & Ross, Georgetown Del., $18,200.

DERRICK.—Norfolk, Va.—M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, received the following bids Aug. 17 for a 120-ton derrick for the Norfolk navy yard: Brown Hoisting Machinery Co., Cleveland, O., $69,950; Snare & Triest, Inc., New York, $64,950, $63,950, $63,450; Merritt & Chapman Derrick & Wrecking Co., New York, for a derrick already constructed and in commission, $69,500.

PARK WORK.—Chicago, Ill.—The South Park board has decided to expend nearly $200,000 in improvements. A new bridge of red granite and concrete, a copy of one in a Boston park designed by Richardson, to be built at the south end of the wooded island in Jackson Park at a cost of $25,000; $23,000 worth of new machinery for the

Washington Park powerhouse and 1,000,000 cu. yds. of filling on the lake front downtown at a cost of $100,000 for the most part make up the list. Bids will be advertised for at once.

PUMPING MACHINERY.—Charleston, S. C.—Capt. J. C. Sanford, U. S. Engr., received the following bids Aug. 13 for the pumping machinery, etc., for a dredging plant; for furnishing and installing pumping machinery:

Bidder.	Delivery in New England states.	Middle Atlantic states.	South Atlantic states.	Gulf states.
Wm. R. Trigg Co.*	.....	$32,050	.....	.....
R. G. Packard Co.†	$47,200	47,200	$47,200	$48,000
Camden Iron Works.‡	37,540	37,413	37,625	37,795
Morris Machine Co.§	38,862	39,128	39,383	39,580
The Bucyrus Co.‡	32,300	32,050	32,500	32,300
Iowa Iron Works.‖	.....	.....	.....	28,500

For building hull and furnishing and installing propelling machinery:

Bidder.	Electric light plant. Including.	Without.
Neafie & Levy Co., Philadelphia	$274,500	$269,500
The Bucyrus Co., So. Milwaukee, Wis.	264,750	262,250
	259,800	256,800[2]
Petersburg (Va.) Iron Works Co.	276,890[3]	283,540
	286,490[3]	293,980[3]
Iowa Iron Works Co., Dubuque, Ia.	265,900	263,950
Wm. R. Trigg Co., Richmond, Va.	263,952	252,375

*Richmond, Va. †New York, N. Y. ‡Camden, N. J. §Baldwinsville, N. Y. ‖So. Milwaukee, Wis. ‖Dubuque, Ia. [1]Reduced capacity. [2]Including pumps. [3]Including pumps, single screw, and wood hull. [4]Including pump, twin screw and wood hull.

CONTRACT PRICES.

DAM AND RESERVOIR.—Saugerties, N. Y.—S. Yates Knight, Supt., writes us that the following bids were received Aug. 7 for constructing a dam and reservoir: (1) Kelly & Kelley, 45 East 42d St., New York; (2) F. N. Lewis & Co., Herkimer, N. Y.; (3) Frank Pidgeon, Saugerties; W. F. Whittemore, Engr.-in-Charge:

		1.	2.	3.
Earth excavation	21,500 cu. yds.	$0.40	$0.47	$0.30
Rock excavation	250 " "	1.00	1.60	3.00
Embankment	1,000 " "	.50	.15	.30
Masonry:				
Rubble, Ros. cem.	450 " "	6.00	4.50	11.00
Same, Port. cem.	150 " "	7.00	5.50	13.00
Dimension stone	20 " "	30.00	25.00	30.00
Concfe in Ros. cem	50 " "	6.00	6.00	7.00
Same, Port. cem.	50 " "	7.00	7.00	8.00
Ashlar facing	220 sq. yds.	4.00	4.00	15.00
Stone paving	500 " "	3.00	1.25	3.00
Platform stone	50 sq. ft.	2.00	.50	.50
24-in. blow-off pipe	75 lin. ft.	4.00	4.15	5.00
12-in. conduit pipe	1,000 " "	2.50	1.70	2.00
24-in. gate valve, etc.		260.00	250.00	100.00

SOIL EXCAVATION.—Waterbury, Conn.—R. A. Cairns, Cy. Engr., writes us that the following bids were received Aug. 13 for soil excavation at the Wigwam Reservoir: (A) calls for 200 sq. rods of chopping and clearing; (B) for 60,000 cu. yds. of excavation of surface material; (C) for 800 cu. yds. of rip-rapping; (D) for removing 600 stumps at price for each:

	A.	B.	C.	D.	Total.
Cenedella Bros., Milford, Mass	$0.90	$0.37	$0.87	$1.20	$23,796
F. Pidgeon, Saugerties, N. Y.	2.50	.36	.86	1.50	23,688
E. McManus, Waterbury	4.75	.345	.845	1.35	23,136
D. J. McNiece, New York city	.40	.33	.83	.60	20,904

PIPE LINE.—Salt Lake City, Utah.—The following bids were received Aug. 12 for constructing the City Creek pipe line; L. C. Kelsey, Cy. Engr.:

Quantities.		P. J. Moran (accepted).	Keifer & Rush.	N. P. Glann Cont. Co.
Excavating	9,500 cu. yds.	$0.40	$0.45	$0.56
Backfilling	6,500 " "	.15	.15	.10
Furnishing and laying pipe:				
24-in. c.-i.	5,920 lin. ft.	5.60	5.86	5.69
20-in. "	845 " "	4.50	4.675	4.65
16-in. "	790 " "	3.30	3.305	3.35
24-in. valves	2 each	300.00	318.00	300.00
20-in. "	1 "	168.00	200.00	200.00
16-in. "	2 "	87.00	107.00	100.00
Special cstgs	6,000 lbs.	.04	.04	.04
Masonry: Brick.	30 cu. yds.	10.00	9.43	11.00
Concrete	30 " "	8.50	9.07	10.00
Cut-stone	30 " "	25.00	24.75	20.00
Cement plaster	500 sq. yds.	.33	.45	.50
Total		$46,989	$49,315	$48,951

SEA WALL.—Des Moines, Ia.—The Likes Improvement Co. has been awarded the contract at $6.91 a lin. ft. for constructing a portion of a sea wall to be 1,625 ft. long.

WATER-WORKS.—Laurel, Md.—We are informed that the following contracts were let Aug. 15, 1901, for constructing water-works; Hill, Quick & Allen, Engrs., Baltimore, Md.: Delivery Main—John Fox & Co., New York, 120 tons 10-in. cast-iron pipe, $23.50 a ton; ½-ton 6-in. cast-iron pipe, $23.50; 2,500 lbs. special castings, 2¾ cts. a lb.; Rosser & Castoe, Bellaire, O., 2,500 lin. ft. pipe laying, cut 4 ft., 20 cts.; 760 ft., cut 4 to 8 ft., 28 cts.; 1,360 ft., cut 8 to 12 ft., 50 cts.; 380 ft., cut 12 to 16 ft., 90 cts.; 370 ft., cut 16 to 18 ft., $1.40. The prices to include all necessary gaskets, bolts and nuts; all trenching, backfilling, setting valves and specials, crossing streams, etc. Furnishing Valves and Valve Boxes.—F. W. Dilks & Co., Baltimore, 2 10-in. gate valves with valve boxes, $30.20; 2 6-in., $14.96; 1 8-in. foot-valve with strainer, $19.00; 2 air relief valves, $14.40. Dam and Dyke—Rosser & Castoe, 550 lin. ft. of 18-in. terra cotta drain, 77 cts.; 6½ cu. yds. rock excavation, $3; 2,000 cu. yds. earth embankment, 40 cts.; 35 cu. yds. Portland concrete, $8; 3,000 lbs. 24-in. cast-iron drain, $23.50; 3,000 cu. yds. muck excavation. Pump Well.—Constructing pump well with connections complete, $700. Pumping Machinery.—Furnishing and installing one simple duplex pump with connections complete, $473; furnishing and installing one compound duplex pump with connections complete, $825; furnishing and installing one 80-HP. return-tubular boiler, complete, including pipe connections, $1,450.

CEMENT AND STONE.—Fort Hancock, N. J.—We are informed that the following bids were received Aug. 15 by Maj. W. L. Marshall, U. S. Engr., New York, for furnishing 6,000 bbls. of cement and 6,000 cu. yds. of broken stone; (1) being price per bbl. in wood; (2) cement per bbl. in four sacks; (3) rebate per empty sack returned; (4) broken stone per cu. yd.: Hiram Snyder & Co., 229 Broadway, Alpha (1) $1.28, (2) $1.44, (3) 10 cts; Manhattan Trap Rock Co., 11 Broadway, (4) 84 cts, trap; Jacob E. Conklin, 135 Front St., (4) 89 cts, trap; The Atlas Portland Cement Co., 30 Broad St., Atlas, (1) $1.40, (2) $1.57, (3) 10 cts.; Commercial Wood & Cement Co., 156 Fifth Ave., Saylor, (1) $1.49, (2) $1.53, (3) 7 cts.

PAVING, ETC.—Wabash, Ind.—We are informed that the Barber Asphalt Paving Co. has been awarded the contract at $1.95 for 11,000 yds. of asphalt paving and at 75 cts. a lin. ft. for 6,000 lin. ft. of cement curbing. Bridges Sons have been awarded the contract at 84 cts. a lin. ft. for 5,652 ft. of cement walks. P. Hipskind & Sons have secured the contract at 81 cts. a lin. ft. for sewers.

BRICK PAVING.—Council Bluffs, Ia.—The following bids were received by the council Aug. 5, 1901, for brick paving in 4th Ward streets: E. A. Wickham, Council Bluffs, with Council Bluffs brick base, Galesburg, $1.74; Des Moines, $1.61; St. Joseph, $1.53; Coffeyville, $1.54; Council Bluffs, $1.44. For concrete base add 10 cts. to above prices. The figures offered are for cash payment, 4% being added for certificate payment. John P. Weaver, Council Bluffs, Springfield, Ill., top, with concrete base, $1.89; Springfield top with Council Bluffs base, $1.66; add 5% for certificate payment. Geo. F. Hughes, Council Bluffs, Des Moines top and Council Bluffs bottom, for all streets with the exception of 5th Ave., $1.67; 5th Ave., $1.73; St. Joseph top and Council Bluffs base with exception of 5th Ave., $1.58½; 5th Ave., $1.75; for concrete base add 13 cts. to the above prices; 6% added for certificate payment. Chas. E. Fanning, Omaha, Galesburg brick or block, $1.79½ for each; Des Moines brick, $1.68; St. Joseph brick, $1.63. All of the above prices for Council Bluffs bottom; add 12 cts. for concrete base and 5% for certificate payment. J. R. Rackliff, St. Joseph, Mo., cash payment, $1.83; certificate, $1.93 for St. Joseph brick, and $1.73 and $1.82 respectively for Coffeyville brick, both bids being made for Council Bluffs brick base or brick equally as good.

PUBLIC LIGHTING.—Fort Madison, Ia.—The following bids were received Aug. 6, 1901, for public lighting: Burlington Ry. & Light Co., arc, 2,000-c. p. $100 per arc for 1 year, $92.50 for 3 years, $82.50 for 5 or 10 years; incandescent, 32-c. p., $20 per lamp for 3 years, $18 for 5 or 10 years; incandescent, 16-c. p., $16 per lamp for 3 years, $14 for 5 or 10 years. General Construction Co., Detroit, arc, 2,000-c.p., $72, moonlight schedule; $80 for all-night schedule, not to exceed 3,800 hours; incandescent, 32-c. p., $20 per lamp (moonlight schedule), $22 for all-night, not to exceed 3,800 hours; 16-c. p. $12 per lamp (moonlight schedule), $13 for all-night not to exceed 3,800 hours. This bid is on basis of 5 year contract. Welsbach Street Lighting Co., Chicago, will furnish and place all lamps, posts, entire equipment; light and keep in repair at own expense; not less than 400 lamps shall be used; all lamps are to be lighted every night in the month, from dusk to midnight, or according to moonlight schedule, not exceeding 2,400 hours per year. From dusk to midnight, $23.50 per light per year; moonlight schedule, $24.80 per year; both bids on basis of 5 year contract. Company will furnish first-class boulevard lanterns.

FOREIGN CONTRACTS AND EXPORT NEWS

WATER-WORKS.—Portsmouth, Eng.—The council has voted to purchase and extend the works of the Portsmouth Water-Works Co., for about $6,250,000.

SEWER.—London, Eng.—Bids are asked until Oct. 8 for constructing 11 ft. of high and low level sewers, two screen basins, etc. G. L. Gomme, Clk. of the Council.

ELECTRIC RAILWAYS.—Sweden.—Reports state that the Swedish government is considering plans for the installation of electricity through the whole railway system of Sweden.

ELECTRIC PLANT.—Huddersfield, Eng.—The council is said to have decided to extend the electric power plant, at a cost of about $500,000. A. B. Mountain, Elec. Engr.; K. F. Campbell, Surv.

ELECTRIC PLANT.—Edinburg, Scotland.—Bids are asked until Sept. 9 for an electric plant for the Colinton Mains Fever Hospital, accommodating about 800 patients. Thos. Hunter, Town Clerk, City Chambers.

WAREHOUSES.—Mexico.—U. S. Consul Canada at Vera Cruz, Mex., reports that three Mexican banks have entered into a contract with the government to erect bonded warehouses in Mexico City, and at Vera Cruz.

MINING.—Chili.—The Andes Tunnel & Mining Co. has been incorporated in Albany N. Y., to acquire mining and tunnel rights in Chili, etc.; capital stock, $100,000; Chas. W. Kempton, Anderson Price and Ezra C. Blair, of New York, are interested.

COLONIZING.—Honduras.—Reports state that James Wood, of Chicago, who went to Ronduras as the representative of a Chicago syndicate, has secured from the government 64,000 acres of land, on conditions of settling it with Americans.

RAILWAY.—England.—Reports state that an American syndicate has asked for a 40-year lease of the South Eastern Ry. The line has 600 miles of road between London, Reading, Canterbury, Ramsgate, Margate, Dover, etc. H. C. O. Bonsor, Chn.

DRAINAGE SYSTEM.—Portsmouth, Eng.—The drainage committee proposes to extend the drainage system, at a cost of about $1,300,000. The town is said to be spending about $3,000,000 for an electric railway and other public improvements. P. Murch, Engr. and Surv.

MACHINERY.—Constantinople, Turkey.—Chas. M. Dickinson, U. S. Consul-General at Constantinople, writes us that the American Oriental Agency, Geo. Chisnell & Son, and Thos. C. Tucker, of Constantinople, are importers of machinery, and are in touch, and likely to know of prospective contracts.

BUILDINGS, ETC.—Mexico.—The Minister of Finance has reported a bill authorizing the construction of school buildings to cost $1,500,000, gold; hospitals, etc., $1,800,000; public buildings, $1,300,000; telegraph lines, $600,000; war vessels, $2,500,000; theatre, $1,800,000; paving, water piping and sewers, $500,000.

ASYLUM BUILDING.—Rodmin, Eng.—Pethick Bros., of Plymouth, Eng., have been awarded the contract at about $440,000 for extending the Cornwall County Lunatic Asylum. S. Trehane, of Liskeard, Eng., submitted the next lowest bid at $445,000. S. Trevail, Arch., Truro and Palace Chambers, Westminster, London.

ELECTRIC RAILWAY.—Belgium.—U. S. Consul-General Hughes at Coburg, Germany, reports that a French-Belgian syndicate is reported to be planning, under the patronage of the King of the Belgians, to build an electric express line for passengers and light freight between Paris and Brussels, and from the latter place to Antwerp.

RAILWAY, ETC.—Spain.—The Nasco Asturiana Co. has been granted a franchise for a narrow-gage railway from Turbia to San Esteban de Pravia. Bids are asked by the Directorate-General of the Administration Local, Madrid, until Aug. 22 for a market in Alicante, to cost about $95,000. The Electric Lighting Co., of Badajoz, Spain, has been granted a concession for a water power plant on the River Guadiana. Bids are asked by Directorate of Public Works, Ponta Delgoda, Azores, until Aug. 10 for furnishing 300 metric tons of Portland cement, at the upset price of about $5,000.

DOCKS, COAL DEPOTS, ETC.—Great Britain.—The House of Commons is discussing the naval bill appropriating funds for docking accommodations, coal depots and reserves, to cost about $125,000,000. The construction of the Malta breakwater, which will cost $5,000,000, and railroads connecting the South Wales coal fields with home ports and works is already in progress.

HARBOR.—Berehaven, Bantry Bay, Ire.—S. G. Frazer, of Dublin, Ireland, is reported to have completed plans for a new harbor at Berehaven, to be capable of harboring the largest steamers. A company has been formed to build the harbor and to operate steamers to Canada and New York. About 65 miles of railway will also have to be built. It is said that American capital is interested.

RAILWAY.—Mexico.—Press reports state that the option which Wm. Astor Chanler and C. D. Wetmore, of New York, obtained on the Hidalgo Northern R. R. a few months ago has expired, and that it will not be renewed. The failure to consummate the transaction is due to the lack of success of the proposed buyers to obtain a concession from the Mexican government for the improvement of the Tuxpam Harbor, which was to have been an important port on the proposed extension of the line.

INDUSTRIAL NOTES.

THE MADDEN BOILER WORKS, Hollidaysburg, Pa., is shipping a large order of phosphate dryers via Singapore to Christmas Island.

THE GOHEEN MFG. CO., Canton, O., is supplying its "carbonizing coating" or protective paint to the Indian and Egyptian governments.

ROY S. BARKER, 75 Exchange Place, Providence, R.I., is sinking an artesian well to supply water for the new swimming pool at Brown University.

THE McKELVEY CONCRETE MACHINERY CO., 1206 Security Building, Chicago, reports that the representative of a large contracting firm in London, Eng., having seen the McKelvey concrete mixing machine in operation, ordered one for his company's use.

THE STILWELL-BIERCE & SMITH-VAILE CO., Dayton, O., has an order from the village of Holgate, Ohio, for two Smith-Vaile deep-well pumps, and also a Smith-Vaile general service pump. The former will have a daily capacity of 300,000 gallons each and the latter 500,000 gallons daily.

THE STANDARD PAINT CO., 100 William St., New York, announces that the buildings for the great art exhibition at Karlsruhe, Baden, Germany, next year, will all be covered with "Ruberoid" roofing, made at its Hamburg factory. This roofing is now used in almost every country in the world.

THE NATIONAL BRIDGE CO., 45 Broadway, New York, announces the appointment of Thomas J. Foster as manager of its structural department. Mr. Foster is a graduate of the Rensselaer Polytechnic Institute and was recently of the firm of Foster & Green, architectural engineers, of New York.

THE AMES TOOL & SHOVEL CO. has been organized with a capital stock of $5,000,000 to consolidate the Ames Shovel Works, North Easton, Mass.; Rowland Shovel Works, Philadelphia; Wright & Alford Shovel Works, Terre Haute, Ind.; St. Louis Shovel Works, St. Louis; and the H. M. Meyers Shovel Works, Beaver Falls, Pa.

THE STRUCTURAL STEEL CAR CO., Canton, O., is about to commence work on the erection of its new car-building plant. The cars have plate girder sides and double hoppers. The large cars are of 50 tons capacity with a minimum dead weight, but the company has orders for four-wheel cars for contractors' use, and also for 12-ton cars for England.

THE WALLACE BARNES CO., Bristol, Conn., is completing a 36 × 110-ft. addition to its factory and has recently installed some new machinery in its main building. The past year has been an unusually prosperous one and there is a large amount of business on hand and in sight. The company makes a specialty of small springs of every description.

THE MEANS & FULTON IRON WORKS, Birmingham, Ala., has received the contract for the new stock house, ore and limestone bins to be erected for the Republic Iron & Steel, at Thomas, Ala. The contract amounts to about $60,000, and includes all iron and steel work, tracks, bins, chutes, etc., for stock house, 640 × 91 ft., and ore and limestone bins, 368 × 91 ft. The work is to be completed in five months, labor troubles excepted.

THE PHILADELPHIA MACHINE TOOL CO., 445 North Darien St., Philadelphia, has been appointed by Gus. C. Henning, 220 Broadway, New York, sole agents for the Henning pocket recorder, double electric contact micrometer, mirror extensometer, roller extensometer and bridge extensometer. The latter is fitted with autographic device when desired. This apparatus will be handled with the regular testing machine business of the company.

EDWARD J. ETTING, Philadelphia and New York, reports the following recent sales: Complete outfit for foundaries: S. G. Barker & Son, Scranton, Pa.; Carbondale Metal Working Co., Carbondale, Pa.; besides several export orders for Cuba, Manchuria, Mexico. Cupolas were sold to (2) Midvale Steel Co., Nicetown, Pa.; Norfolk & Western Ry. Co., Roanoke, Va.; Philadelphia Hardware & Malleable Iron Works, Philadelphia; Gruson Iron Works, Eddystone, Pa.; Rosmore Co., New York; Delaware & Hudson Co., Scranton, Pa.; Frederick Brass & Bronze Works, Pittston, Pa.; Pennington Foundry & Heater Co., Pennington, N. J.; Metal Furniture Co., and others. Molding machines were sold to Baltimore & Ohio R. R. Co., Baltimore; A. B. Farquhar Co., Ltd., York, Pa.; Safety Spindle & Mfg. Co., Danville, Pa.; McClave, Brooks & Co., Scranton, Pa.; Weatherly Foundry & Machine Co., and a number for export. Cranes were sold to the General Electric Co., New York; Westinghouse, Church, Kerr Co., New York; New York Central R. R. Co., New York; Moore & White Co., Philadelphia; Benj. Eastwood Co., and others; besides the usual line of orders for ladles, aid hoists, sand sifters, pneumatic tools, magnetic separators, etc.

NEARLY EVERY PROMINENT CONTRACTOR and Manufacturer of Contractors' Supplies READS ENGINEERING NEWS.
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